McGill University

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ANNUAL CALENDAR

FOR SESSION 1920-1921

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FOR SESSION 1919-1920

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McGILL UNIVERSITY

MONTREAL

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IN 1821; AND REORGANIZED UNDER AN
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FOR SESSION 1920-21

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To retire 1st September, 1921.

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Rev. Herbert Symonds, LL.D., Governors' Fellow.
H. Walter, M.A., Ph.D., Elective Fellow, Faculty of Arts.
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J. J. Creelman, B.A., B.C.L., D.S.O., Representative Fellow in Law.
Rev. George Duncan, M.A., D.D., Governors' Fellow.

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————————, Representative Fellow in Applied Science.
————————, Representative Fellow in Law.
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Hon. Sir Charles Davidson, Kt., M.A., D.C.L., LL.D.
Emeritus Professor of Criminal Law. 125 Metcalfe St.

Charles E. Moyse, B.A., LL.D.
Emeritus Vice-Principal, Dean of the Faculty of Arts and Professor of English.

ACADEMICAL YEAR, 1920-1921

SEPTEMBER, 1920

1	Wednesday	
2	Thursday	
3	Friday	
4	Saturday	Royal Victoria College opened, 1899.
5	**SUNDAY**	
6	Monday	Labour Day. Library closed. Last day for receiving applications for the Matriculation Examination.
7	Tuesday	
8	Wednesday	
9	Thursday	
10	Friday	
11	Saturday	
12	**SUNDAY**	
13	Monday	
14	Tuesday	
15	Wednesday	
16	Thursday	
17	Friday	
18	Saturday	
19	**SUNDAY**	Strathcona Medical Buildings opened, 1901.
20	Monday	Matriculation Examination begins. Exhibition, Scholarship and Supplemental Examinations in Arts. Conservatorium of Music opens.
21	Tuesday	
22	Wednesday	
23	Thursday	
24	Friday	
25	Saturday	
26	**SUNDAY**	
27	Monday	Meeting of Governors.
28	Tuesday	
29	Wednesday	
30	Thursday	Special Registration day for new students.

OCTOBER, 1920

1	Friday	Special Registration day for students previously enrolled.
2	Saturday	Meeting of Faculty of Medicine.
3	**SUNDAY**	
4	Monday	Lectures begin in Arts, Applied Science and Law. Opening address by the Principal at 5 p.m. in the R. V. C. Meeting of Faculty of Applied Science.
5	Tuesday	
6	Wednesday	Founder's Birthday.
7	Thursday	Physics Building Committee.
8	Friday	Meeting of Faculty of Arts.
9	Saturday	Interclass Sports.
10	**SUNDAY**	William Molson Hall opened, 1862.
11	Monday	Summer Essays in Applied Science to be sent in. Library Committee. Museum Committee.
12	Tuesday	
13	Wednesday	Regular Meeting of Corporation.
14	Thursday	Conservatorium of Music opened, 1904.
15	Friday	University Sports. No lectures.
16	Saturday	
17	**SUNDAY**	
18	Monday	Engineering Building Committee. Chemistry and Mining Building Committee.
19	Tuesday	
20	Wednesday	
21	Thursday	
22	Friday	
23	Saturday	
24	**SUNDAY**	
25	Monday	Meeting of Governors.
26	Tuesday	
27	Wednesday	
28	Thursday	
29	Friday	
30	Saturday	
31	**SUNDAY**	Redpath Library opened, 1893.

NOTE.—The University is closed on Thanksgiving Day.

NOVEMBER, 1920

1	Monday	Meeting of Faculty of Applied Science.
2	Tuesday	
3	Wednesday	
4	Thursday	
5	Friday	Macdonald College opened, 1907. Meeting of Faculty of Arts.
6	Saturday	Meeting of Faculty of Medicine.
7	**SUNDAY**	
8	Monday	
9	Tuesday	
10	Wednesday	
11	Thursday	
12	Friday	
13	Saturday	
14	**SUNDAY**	
15	Monday	Engineering Building Committee. Chemistry and Mining Building Committee.
16	Tuesday	
17	Wednesday	
18	Thursday	
19	Friday	
20	Saturday	
21	**SUNDAY**	
22	Monday	
23	Tuesday	Meeting of First Year (Arts) Committee.
24	Wednesday	
25	Thursday	
26	Friday	
27	Saturday	
28	**SUNDAY**	
29	Monday	Meeting of Governors.
30	Tuesday	

DECEMBER, 1920

1	Wednesday	Meeting of Academic Board.
2	Thursday	Physics Building Committee.
3	Friday	Meeting of Faculty of Arts.
4	Saturday	Meeting of Faculty of Medicine.
5	**SUNDAY**	
6	Monday	Meeting of Faculty of Applied Science. Museum Committee. Library Committee.
7	Tuesday	
8	Wednesday	Regular Meeting of Corporation.
9	Thursday	
10	Friday	
11	Saturday	
12	**SUNDAY**	
13	Monday	
14	Tuesday	
15	Wednesday	
16	Thursday	
17	Friday	
18	Saturday	
19	**SUNDAY**	
20	Monday	Engineering Building Committee. Chemistry and Mining Building Committee. Chemistry and Mining Building opened, 1898.
21	Tuesday	Last day of lectures in Arts, Law and Applied Science.
22	Wednesday	
23	Thursday	
24	Friday	
25	Saturday	Christmas Day. Library closed.
26	**SUNDAY**	
27	Monday	Meeting of Governors.
28	Tuesday	
29	Wednesday	
30	Thursday	
31	Friday	

JANUARY, 1921

1	Saturday	New Year's Day. Library closed.
2	**SUNDAY**	
3	Monday	Meeting of Faculty of Applied Science.
4	Tuesday	
5	Wednesday	Lectures resumed in all Faculties.
6	Thursday	
7	Friday	Meeting of Faculty of Arts.
8	Saturday	Meeting of Faculty of Medicine.
9	**SUNDAY**	
10	Monday	
11	Tuesday	
12	Wednesday	
13	Thursday	
14	Friday	First term lectures end in Arts and Law.
15	Saturday	First term lectures end in Applied Science.
16	**SUNDAY**	
17	Monday	Engineering Building Committee. Chemistry and Mining Building Committee.
18	Tuesday	First Term Examinations in Arts and Law begin.
19	Wednesday	First term examinations in Applied Science begin.
20	Thursday	
21	Friday	
22	Saturday	
23	**SUNDAY**	
24	Monday	Second Term begins in Arts, Law and Applied Science.
25	Tuesday	
26	Wednesday	
27	Thursday	
28	Friday	
29	Saturday	
30	**SUNDAY**	
31	Monday	Meeting of Governors.

FEBRUARY, 1921

1	Tuesday	
2	Wednesday	
3	Thursday	Physics Building Committee.
4	Friday	Meeting of Faculty of Arts.
5	Saturday	Meeting of Faculty of Medicine.
6	**SUNDAY**	
7	Monday	Meeting of Faculty of Applied Science. Museum Committee. Library Committee.
8	Tuesday	Meeting of First Year (Arts) Committee.
9	Wednesday	Ash Wednesday. No Lectures. Regular Meeting of Corporation.
10	Thursday	
11	Friday	
12	Saturday	
13	**SUNDAY**	
14	Monday	Engineering Building Committee. Chemistry and Mining Building Committee.
15	Tuesday	
16	Wednesday	
17	Thursday	
18	Friday	
19	Saturday	
20	**SUNDAY**	
21	Monday	
22	Tuesday	
23	Wednesday	
24	Thursday	Physics and Engineering Buildings opened, 1893.
25	Friday	
26	Saturday	
27	**SUNDAY**	
28	Monday	Meeting of Governors.

MARCH, 1921

1	Tuesday	
2	Wednesday	
3	Thursday	
4	Friday	Meeting of Faculty of Arts.
5	Saturday	Meeting of Faculty of Medicine.
6	**SUNDAY**	
7	Monday	Meeting of Faculty of Applied Science.
8	Tuesday	
9	Wednesday	
10	Thursday	
11	Friday	
12	Saturday	
13	**SUNDAY**	
14	Monday	
15	Tuesday	
16	Wednesday	
17	Thursday	
18	Friday	
19	Saturday	
20	**SUNDAY**	
21	Monday	Engineering Building Committee. Chemistry and Mining Building Committee.
22	Tuesday	
23	Wednesday	
24	Thursday	
25	Friday	Good Friday. No Lectures. Library closed.
26	Saturday	
27	**SUNDAY**	Easter Sunday.
28	Monday	Meeting of Governors.
29	Tuesday	
30	Wednesday	
31	Thursday	

APRIL, 1921

1	Friday	Meeting of Faculty of Arts.
2	Saturday	Meeting of Faculty of Medicine.
3	**SUNDAY**	
4	Monday	Meeting of Faculty of Applied Science.
5	Tuesday	Macdonald Engineering Building burned, 1907.
6	Wednesday	
7	Thursday	Physics Building Committee.
8	Friday	
9	Saturday	
10	**SUNDAY**	
11	Monday	Library Committee. Museum Committee.
12	Tuesday	
13	Wednesday	Regular Meeting of Corporation.
14	Thursday	Second Term Lectures end in Arts, Law and Applied Science.
15	Friday	
16	Saturday	Medical Building burned, 1907.
17	**SUNDAY**	
18	Monday	Engineering Building Committee. Chemistry and Mining Building Committee.
19	Tuesday	Sessional Examinations in Arts, Law, and Applied Science begin.
20	Wednesday	
21	Thursday	
22	Friday	
23	Saturday	
24	**SUNDAY**	
25	Monday	Meeting of Governors.
26	Tuesday	
27	Wednesday	New Engineering Building opened, 1909.
28	Thursday	
29	Friday	
30	Saturday	

MAY, 1921

1	**SUNDAY**	
2	Monday	Meeting of Faculty of Applied Science
3	Tuesday	
4	Wednesday	
5	Thursday	
6	Friday	Meeting of Faculty of Arts.
7	Saturday	Meeting of Faculty of Medicine.
8	**SUNDAY**	
9	Monday	
10	Tuesday	
11	Wednesday	
12	Thursday	Convocation for Conferring Degrees in Arts, Law and Applied Science.
13	Friday	
14	Saturday	
15	**SUNDAY**	
16	Monday	Engineering Building Committee. Chemistry and Mining Building Committee.
17	Tuesday	
18	Wednesday	
19	Thursday	
20	Friday	
21	Saturday	
22	**SUNDAY**	
23	Monday	
24	Tuesday	Victoria Day. Library closed.
25	Wednesday	
26	Thursday	
27	Friday	
28	Saturday	
29	**SUNDAY**	
30	Monday	Meeting of Governors.
31	Tuesday	

JUNE, 1921

1	Wednesday	
2	Thursday	Physics Building Committee.
3	Friday	
4	Saturday	Meeting of Faculty of Medicine.
5	**SUNDAY**	New Medical Building opened, 1911.
6	Monday	Museum Committee. Library Committee.
7	Tuesday	
8	Wednesday	Regular Meeting of Corporation.
9	Thursday	
10	Friday	
11	Saturday	
12	**SUNDAY**	
13	Monday	
14	Tuesday	
15	Wednesday	
16	Thursday	
17	Friday	
18	Saturday	
19	**SUNDAY**	
20	Monday	Engineering Building Committee. Chemistry and Mining Building Committee.
21	Tuesday	
22	Wednesday	
23	Thursday	
24	Friday	
25	Saturday	
26	**SUNDAY**	
27	Monday	Meeting of Governors.
28	Tuesday	
29	Wednesday	
30	Thursday	

JULY, 1921

1	Friday	Dominion Day. Library closed.
2	Saturday	
3	**SUNDAY**	
4	Monday	Gift of Frothingham, Molson and Law Properties by Sir Wm. Macdonald, 1911.
5	Tuesday	
6	Wednesday	
7	Thursday	
8	Friday	
9	Saturday	
10	**SUNDAY**	
11	Monday	
12	Tuesday	
13	Wednesday	
14	Thursday	
15	Friday	
16	Saturday	
17	**SUNDAY**	
18	Monday	
19	Tuesday	
20	Wednesday	
21	Thursday	
22	Friday	
23	Saturday	
24	**SUNDAY**	
25	Monday	
26	Tuesday	
27	Wednesday	
28	Thursday	
29	Friday	
30	Saturday	
31	**SUNDAY**	

AUGUST, 1921

1	Monday	
2	Tuesday	
3	Wednesday	
4	Thursday	
5	Friday	
6	Saturday	
7	**SUNDAY**	
8	Monday	
9	Tuesday	
10	Wednesday	
11	Thursday	
12	Friday	
13	Saturday	
14	**SUNDAY**	
15	Monday	
16	Tuesday	Peter Redpath Museum opened, 1882.
17	Wednesday	
18	Thursday	
19	Friday	
20	Saturday	
21	**SUNDAY**	
22	Monday	
23	Tuesday	
24	Wednesday	
25	Thursday	
26	Friday	
27	Saturday	
28	**SUNDAY**	
29	Monday	
30	Tuesday	
31	Wednesday	

McGill University.

HISTORY AND CONSTITUTION.

FOUNDATION AND EARLY HISTORY.

McGill University owes its origin to a private endowment. It was founded by the Hon. James McGill, a leading merchant and public-spirited citizen of Montreal, who died in 1813. By his will, dated January 8th, 1811, he bequeathed his property of Burnside (consisting of 46 acres of land with the dwelling house and other buildings thereon) and a sum of £10,000 in money to found a college in a provincial university, the erection of which had already been provided for by the British Government. The four trustees appointed under his will were directed to convey the property of the bequest to the Royal Institution for the Advancement of Learning, a body which, in 1802, had been incorporated by the Legislature "for the establishment of free schools and the advancement of learning" in the Province of Quebec. The conditions upon which the property was to be transferred to the Royal Institution for the Advancement of Learning were, mainly, that that Institution should, within ten years after the testator's decease, erect and establish on his Burnside estate "a University or College, for the purposes of education and the advancement of learning in this Province," and that the college, or one of the colleges in the University, if established, should "be named and perpetually be known and distinguished by the appellation of McGill College." Owing to persistent opposition by the leaders of one section of the people to any system of governmental education and to the refusal by the Legislature to make the grants of land and money which had been promised, the proposed establishment of the provincial university by the British Government was abandoned.

In so far as the McGill College was concerned, however, the Royal Institution at once took action by applying for a Royal Charter. Such a charter was granted in 1821, and the Royal Institution prepared to take possession of the estate, but, owing to protracted litigation, this was not surrendered to them till 1829, when the work of teaching was begun in two faculties, Arts and Medicine. The record of the first thirty years of the University's existence is an unbroken

tale of financial embarrassment and administrative difficulties. The charter was cumbrous and unwieldy, and unsuited to a small college in the circumstances of this country, and the University, with the exception of its medical faculty, became almost extinct. But after thirty years the citizens of Montreal awoke to the value of the institution which was struggling in their midst. Several gentlemen undertook the responsibility of its reorganization, and, in 1852, an amended charter was secured. The Governor-General of Canada for the time being, Sir Edmund Head, became interested in its fortunes, and in 1855, with the advent of a new Principal, an era of progress and prosperity began.

A course in Law was begun in connection with the Faculty of Arts, in 1848, and the department was established as a separate faculty in 1853. The Faculty of Applied Science was not regularly organized till 1878, but a course in Engineering, which was amplified into the Department of Practical Science in 1871, was given under the Faculty of Arts as far back as 1856. The Faculty of Agriculture was established in 1907.

Principal Dates in the History of the University.

First Charter obtained.—1821.
College opened.—1829.
Amended Charter secured.—1852.
William Molson Hall opened.—October 10th, 1862.
Peter Redpath Museum opened.—August 16th, 1882.
Physics and Engineering Buildings opened.—February 24th, 1893.
Redpath Library opened.—October 31st, 1893.
Chemistry and Mining Building opened.—December 20th, 1898.
Royal Victoria College opened.—September 4th, 1899.
Strathcona Medical Buildings opened.—September 18th, 1901.
Conservatorium of Music opened.—October 14th, 1904.
Macdonald Engineering Building burned.—April 5th, 1907.
Medical Building burned.—April 16th, 1907.
Macdonald College opened.—November 5th, 1907.
New Engineering Building opened.—April 27th, 1909.
New Medical Building opened.—June 5th, 1911.

Gift of Frothingham, Molson, and Law properties (comprising about 25 acres), from Sir William C. Macdonald.—July 4th, 1911.

One million five hundred thousand dollars raised (chiefly from Montreal citizens) in aid of the funds of the University.—November 20-24, 1911.

Gift of $1,000,000 from the Carnegie Corporation, New York, "in recognition of the noble and devoted service and sacrifice of McGill towards Canada's part in the Great War."—February 25th, 1918.

GOVERNMENT OF THE UNIVERSITY.

By the amended Charter "the Governors, Principal, and Fellows" of the University are constituted a body politic and corporate, with all the usual rights and privileges of corporate bodies. The supreme authority, however, is vested in the Crown, and is exercised by His Excellency the Governor-General of Canada, for the time being, as **Visitor**. This is a special and important feature of the constitution, for, while it gives the University an imperial character and removes it at once from any merely local or party influence, it secures the patronage of the head of the political system of the country.

The **Governors** of the University are the members of the Royal Institution for the Advancement of Learning, above mentioned, and in them are vested the management of finances, the passing of University statutes and ordinances, the appointment of professors, and other important duties. Their number is limited to twenty-five, and vacancies are filled by the nomination of the remaining members with the approval of the Visitor. The President of the Board of Governors is *ex-officio* Chancellor of the University.

The **Principal** is the academic head and chief administrative officer. He is appointed by the Board of Governors (of which body he is a member *ex-officio*). He also holds the office of Vice-Chancellor of the University.

The **Fellows** (42 in number) are selected with reference to the representation of all the faculties and departments of the University, and of the graduates, affiliated colleges, and other bodies.

The Governors, Principal and Fellows together, constitute the **Corporation,** the highest academical body. Its powers are fixed by statute, and include the framing of all regulations touching courses of study, matriculation, graduation, discipline and the granting of degrees.

The administration of these regulations, along with direct responsibility for the conduct of the educational work of the University, is entrusted to the several **Faculties,**—Arts, Medicine, Law, Applied Science, Agriculture, Dentistry, and Music.

The Principal, the Deans of the several Faculties, the Professors and Associate Professors, and other members, not exceeding ten in number, of the teaching staff, constitute the **Academic Board** of the University, with the duty of considering such matters as pertain to the interests of the University as a whole, and of making recommendations concerning the same.

INCORPORATED AND AFFILIATED COLLEGES.

INCORPORATED COLLEGES.

Macdonald College is situated at Ste. Anne de Bellevue, about twenty miles from Montreal. It consists of three departments:—The School of Agriculture, the School of Household Science, and the School for Teachers. Courses leading to the Bachelor's and Master's degrees in Agriculture are under the control of the Corporation of McGill University; all the short term courses in agriculture, as well as the courses in domestic science, are under the direction of the Macdonald College Committee; and those for diplomas to teach in the Province of Quebec are subject to the immediate supervision of the Teachers' Training Committee. Further information is given on page 315, and full details as to the college buildings, courses, terms of admission, fees, etc., will be found in the Macdonald College Announcement, which will be sent on application to the Principal, Macdonald College, Que.

The Royal Victoria College is the women's College of McGill University for courses in the Faculty of Arts. For further particulars, see page 308.

AFFILIATED COLLEGES.

Acadia, Alberta and Mount Allison Universities and the University of St. Francis Xavier's College are affiliated to McGill University to the extent that students who have completed the two-year course in Engineering given by these universities are admitted directly to the third year in the courses of Civil, Mining, Metallurgical, Chemical, Mechanical, and Electrical Engineering of the Faculty of Applied Science.

Students from these universities entering the third year in either of the first two of these courses must take the summer school in surveying, which opens in 1920 on September 6th; those entering the third year in Metallurgical Engineering or Chemical Engineering will take the summer course in Chemistry. Students from these universities entering the courses in Mechanical or Electrical Engineering are advised to take the summer school in mechanical drawing, physics and shopwork, but they are not required to do so.

Alberta University is also affiliated in the Faculty of Medicine, students who have completed the third year in the Medical course there being admitted directly to the fourth year in the Faculty of Medicine of this University.

Royal Military College.—Graduates of the Royal Military College of Kingston are admitted to the third year in the several

departments of the Faculty of Applied Science above mentioned. They must in all cases take the respective summer schools pertaining to these several courses, which open in 1920 on September 6th.

Arrangements have also been made whereby graduates and students of the Mechanical Science course in the University of Cambridge will be admitted to advanced standing in the Faculty of Applied Science under definite regulations, particulars of which can be obtained from the Dean of the Faculty.

AFFILIATED THEOLOGICAL COLLEGES.

The Theological Colleges named below are affiliated to the University under the following arrangements:—Students in these institutions who are pursuing a double course in Arts and Theology (six years at least) will be exempted from a half course in Arts in each of the third and fourth years or a whole course in either.

The Congregational College of Canada, Montreal.—Principal, Rev. D. L. Ritchie, B.A., D.D., 58 McTavish St.

The Diocesan College of Montreal.—Principal, Rev. E. I. Rexford, M.A., LL.D., 743 University St.

The Presbyterian College, Montreal, in connection with the Presbyterian Church in Canada.—Principal, Rev. D. J. Fraser, M.A., LL.D., D.D., 69 McTavish St.

The Wesleyan College of Montreal.—Principal, Rev. James Smyth, LL.D., 760 University St.

A movement was inaugurated in the session 1912-13 for a large measure of co-operation among the above Colleges, with the result that a considerable portion of the work which had hitherto been done separately is now taken in joint classes.

For Calendars and all necessary information, apply to the Principals of the several Colleges.

AFFILIATION TO OTHER UNIVERSITIES.

The University is affiliated to the universities of Oxford, Cambridge and Dublin, under conditions which allow an undergraduate who has taken two years' work, and has passed the second year sessional examination in Arts, to pursue his studies and take his degree at any of these universities on a reduced period of residence.

FACULTIES AND COURSES.

The educational work of the University is carried on in McGill College, the Royal Victoria College for Women, and other University buildings in Montreal; and also in Macdonald College at Ste. Anne de Bellevue.

COURSES FOR DEGREES AND DIPLOMAS.

The several courses offered by the University are as follows:—

In the Faculty of Arts.

For the degree of Bachelor of Arts.
" " " " Bachelor of Science.
" " " " Bachelor of Commerce.

The undergraduate courses of study which lead to the degree of B.A. or of B.Sc., extend over four sessions of about seven and a half months each. In the second, third and fourth years extensive options are provided, and certain exemptions are also allowed to professional students. (See pages 122 to 124.)

The course for the degree of Bachelor of Commerce extends over three years. Full particulars are given on pages 159 to 175.

The following courses are also offered:—one leading to the degree of Bachelor of Science in Agriculture, with the privilege of qualifying for an Academy Diploma; another to the degree of Bachelor of Household Science, and a third to the degree of Bachelor of Laws. The first two years are taken in the Faculty of Arts and the last two in the Faculty of Agriculture, or the School of Household Science, or the Faculty of Law, as the case may be. Details of the first two courses will be found in the Macdonald College Announcement, and of the last under "Faculty of Law," page 258.

The undergraduate course in Arts can be taken along with the undergraduate course in Medicine, in eight years, or with that in Applied Science or Dentistry, in six years. (See pp. 122 to 124.)

The courses in Arts are open to women (who are educated mainly in separate classes) on equal terms with men. Residential accommodation for women students is provided in the Royal Victoria College. (For further particulars, see page 308.)

Holders of the degree of B.A. from this University are admitted to the study of the learned professions, without preliminary examination, in the different provinces of Canada, and in Great Britain and Ireland, and elsewhere. They will also be granted Academy Diplomas

to teach in the Province of Quebec, provided they have passed an examination in pedagogy and have taught, under supervision, for the time required by law.

In the Faculty of Applied Science.

For the degree of Bachelor of Architecture (B. Arch.).

For the degree of Bachelor of Science (B.Sc.), in the departments of Chemical Engineering, Civil Engineering, Electrical Engineering, Mechanical Engineering, Metallurgical Engineering, and Mining Engineering.

The undergraduate courses of study for the degree of B.Sc. extend over four sessions, averaging (with summer sessions) about eight months each, and provide a thorough professional training in the departments mentioned above. The course for the degree of B. Arch. extends over five years. Full particulars are given on pages 183 to 257.

The undergraduate course in Arts can be taken along with the undergraduate course in Applied Science, in six years. (See page 122.)

In the Faculty of Law.

For the degree of Bachelor of Civil Law (B.C.L.)
" " " " Bachelor of Laws (LL.B.)

The undergraduate course for each of these degrees extends over four sessions of eight months each, except for graduates in Arts, Applied Science or Medicine, who can obtain the former (B.C.L.) in three years and the latter (LL.B.) in two. The degree of B.C.L. can also be obtained in three years by (1) ex-soldiers and sailors, and (2) by those who are taking the B course for the degree, recently instituted for persons who do not intend to practise in the Province of Quebec.

Candidates for the degree of LL.B., who are not graduates as above specified, take the first two years in the Faculty of Arts and the last two in Law. (Full particulars are given on page 258.)

In the Faculty of Medicine.

For the degree of Doctor of Medicine and Master of Surgery (M.D., C.M.).

For the Diploma of Public Health.
For the Diploma of Pharmacy.

The undergraduate course of study leading to the degree of M.D., C.M., extends over six sessions of eight months each. For further information, see pages 276 to 284.

The undergraduate course in Arts can be taken along with the undergraduate course in Medicine in eight years. (See page 123.)

The course in Public Health and Sanitary Science is open to those only who have graduated in Medicine, or who possess some other qualification for practice. Generally speaking, it occupies a period of eight months.

In Macdonald College.

For the degree of Bachelor of Science in Agriculture (two courses.)

Other courses in the School of Agriculture.

For the degree of Bachelor of Household Science (two years in Arts, and two in the School of Household Science.)

Other courses in the School of Household Science.

The several courses for teachers' diplomas.

The course of study for the degree of Bachelor of Science in Agriculture extends over four sessions of about eight months each. It aims to provide a thorough theoretical and practical training in the several branches of the science. (See also page 315.)

The Macdonald College announcement, containing full details as to buildings, courses, terms of admission, fees, etc., can be obtained from the Principal, Macdonald College P.O., Que.

In the Faculty of Dentistry.

For the degree of Doctor of Dental Surgery (D.D.S.)

The undergraduate course of study leading to the degree of D.D.S. extends over four sessions of eight months each. (For further particulars, see page 286.)

The undergraduate course in Arts can be taken along with the undergraduate course in Dentistry in six years. (See page 124.)

In the Faculty of Music.

For the degrees of Bachelor of Music (Mus. Bac.) and Doctor of Music (Mus. Doc.).

For the Diploma of Licentiate in Music, and the several Grade examination certificates.

Students are admitted as *Regular Students* taking an organized course leading to the Diploma of Licentiate in Music or the degree of Bachelor of Music (See page 288), or as *Partial Students*, who under certain conditions and after examination, can obtain certificates bearing the imprimatur of the University. Full details can be obtained on application to the Secretary of the McGill Conservatorium of Music, 323 Sherbrooke street west, Montreal.

In the Graduate School.

For the degrees of Master of Arts, Master of Science, Master of Laws, Doctor of Philosophy, Doctor of Science, Doctor of Literature and Doctor of Civil Law.

Full information as to admission and departments in which studies are offered will be found on page 299, and can also be obtained from the Chairman or Secretary of the Committee on Graduate Studies, to which Committee are also submitted all applications for the Degrees of D.Sc., D.Litt. and D.C.L. The Chairman of the Committee is Professor James Harkness.

The Course for the First Class Academy Diploma of the Province of Quebec.

Certain courses are given by the Department of Education, which when supplemented by practice teaching and observation (except in the case of holders of the Model Diploma) lead to a First Class Academy Diploma on graduation. (See page 158.)

This diploma can also be obtained by those who qualify for the degree of B.S.A. by taking two years in Arts, followed by two in the Faculty of Agriculture. (See Macdonald College announcement.)

Extension Courses.

Evening lectures on a variety of subjects. Particulars will be found on pages 169 to 174.

DEGREES.

The degrees conferred by the University are as follows:—B.A.; B.Sc.; B. Arch.; B.C.L.; LL.B.; B.S.A.; Mus. Bac.; B. Com.; B.H.S.; M.D., C.M.; D.D.S.; M.A.; M.Sc.; LL.M.; Mus. Doc.; D.C.L.; Ph.D.; D.Sc.; D.Litt.; and LL.D. (Honorary).

I. LOWER DEGREES.

In order to obtain the degrees of B.A.; B.Sc.; B. Arch.; B.C.L.; LL.B.; B.S.A.; B.Com.; B.H.S.; M.D., C.M.; and D.D.S., students are required to attend lectures (for length of courses, see pages 38 to 41), to complete the course of study for the degree sought, to pass all the prescribed examinations during the course, and any special examination for graduation, and to perform such other exercises as may be prescribed to that end.

The requirements for degrees in Music are stated on page 288.

II. HIGHER DEGREES.

All theses for higher degrees, in order to be accepted, must be sent to the Chairman of the Committee on Graduate Studies before April 1st, 1921, except in the case of theses involving experimental work, when the time will be extended to April 16th. The examination will be held in April. No thesis will be received, or examination granted, until the fee for the degree has been paid.

Degree of M.A.

For requirements, see under "Graduate School," page 299.

Degree of M.Sc.

For requirements, see under "Graduate School," page 301.

Degree of LL.M. (Master of Laws).

For requirements, see under "Graduate School," page 302.

Degree of D.Litt.

Candidates for the degree of Doctor of Literature must be Masters of Arts, and graduates of at least five years' standing, who shall have distinguished themselves by special research and learning in the domain of literature or philosophy. They are required to present a satisfactory thesis or published work.

Degree of D.Sc.

Candidates for the degree of Doctor of Science must be Masters of Arts, Masters of Science, or Doctors of Medicine, and graduates of at least five years' standing, who shall have distinguished themselves by special research and learning in the domain of science. They are required to present a satisfactory thesis or published work.

Degree of Ph.D.

For requirements, see under "Graduate School," page 302.

Degree of D.C.L. (Doctor of Civil Law).

For requirements, see under "Graduate School," page 303.

Degree of LL.D.

The degree of Doctor of Laws is given only as an honorary degree.

III. ADMISSION "AD EUNDEM GRADUM."

The following are the regulations applicable to admission *ad eundem gradum*:—

Extract from the Statutes, Chap. VIII.

"Graduates of other universities desirous of admission to the like "degree in this University, may be so admitted by the Corporation; "due enquiry being first made as to their moral character and sound "learning, and opportunity given to the several Faculties, or the "Committee on Graduate Studies, as may be required, to make such "representation in the premises as they may see fit. Provided always "that, except in the case of candidates proceeding to a higher degree, "such application for admission shall not be put to vote until after "three months' notice, unless by unanimous consent, and shall not be "ordered if as many as five members of the Corporation shall vote "against it."

Extracts from the Regulations of the Corporation.

"In all cases in which anyone is proposed for an *ad eundem* "degree, it shall be necessary for the member or members of the Cor- "poration making such proposal, to state in writing therewith the "grounds upon which the granting of such degree is advocated, and "when the case shall be referred to the Faculties, under Chap. VIII. "of the Statutes, copies of such proposal and grounds shall be trans- "mitted to the Faculties by the Registrar for their consideration."

Note. In considering applications, under the above regulations, the Faculties will require as "grounds" the pursuit of a course of study

or research in this University; association with the academic work of the University; or similar qualifications.

Admission "ad eundem gradum" is not granted merely as a titular distinction.

"The degree of Bachelor of Arts or Bachelor of Science, *ad "eundem*, shall be granted only to candidates who are proceeding to "a higher degree, the lower degree being granted only when the can- "didate has qualified for the higher."

"Graduates of other universities desiring an *ad eundem* degree "of this University, as a condition of entering on a course of study "leading to a higher degree, shall make application to the Committee "on Graduate Studies, who shall immediately take action without "previous reference to the various Faculties or to Corporation."

ENTRANCE REQUIREMENTS.

JUNIOR MATRICULATION.

I. REGULATIONS.

1. Matriculation examinations (for entrance into all Faculties) are held only in June and September—in June at McGill University and the local centres named below; in September, at Montreal only, except in cases which require special consideration.

ALL INQUIRIES RELATING TO THE EXAMINATIONS SHOULD BE ADDRESSED TO THE REGISTRAR OF THE UNIVERSITY.

For the convenience of candidates in Great Britain, who are not otherwise qualified for entrance, an examination will be held regularly in London, Eng., each year, commencing on or about the 12th of June. Full information regarding the exact date of the examination, fee, etc., may be obtained from the Honorary Representative of the University, W. A. Bulkeley-Evans, Esq., M.A., Secretary Headmasters' Conference, 12 King's Bench Walk, Temple, London, E.C.

2. Every candidate for examination is required to fill up an application form and return the same with the necessary fee (for which see page 48, one month before the examination begins. Blank forms may be obtained from the Registrar.

No application for examination in June will be received after May 20th.

3. Examinations will be held in June at the following centres, outside of the Province of Quebec, if a sufficient number of candidates apply:—Sydney, N.S.; Rothesay, N.B.; Ottawa, Ont.: Brockville, Ont.; Port Hope, Ont.; Toronto, Ont.; Hamilton, Ont.; St. Catharines, Ont.; Winnipeg, Man.; Regina, Sask.; Calgary, Alta.; Kingston, Jamaica, and London, Eng.

Candidates who are not within easy reach of any of the above centres are advised to prepare for entrance by taking an examination recognized by the University, as shown on pages 47 and 48.

4. The matriculation examination may be taken in two parts, but in order to be valid for entrance it must be completed within two years from the date of the first attempt. Credit will not be given for less than four papers passed at one time,* except in the case of those who are not required to take as many as four papers to

* For the purpose of this regulation the June and September examinations of the same year will be considered as "one time."

complete the examination; nor will credit be given for less than four papers on certificates which may be presented for exemption from the examination, and no certificate will be accepted which has been obtained under easier conditions than those which are imposed on candidates who are attempting to qualify for entrance by taking the regular University examination.

5. Candidates will not be considered as having passed in any subject unless they obtain at least 50 per cent. of the maximum marks in that subject (in subjects in which two papers are set, 50 per cent. on the two and not less than 40 in either).

This regulation applies also in the case of certificates.

6. Candidates for admission to the Faculties of Arts, Applied Science, Law, Agriculture and the Department of Music who have failed to complete the matriculation requirements will be allowed to enter the first year as conditioned undergraduates, provided (a) that they have not failed in more than two papers (which cannot both be in the mathematical section nor in two languages) and (b) that they have obtained at least 25 per cent. in the subjects in which they have failed and 50 per cent. of the aggregate.†

This regulation applies also to candidates who seek to satisfy the matriculation requirements by means of certificates granted by other recognized examining bodies.

This condition must be removed before the student can be admitted to the second year.

In order to be admitted to the Faculty of Medicine, or Dentistry, a candidate must pass in every subject required.

Students who are conditioned in a language must attend a special tutorial class during their first session, for which a fee of $10.00 is exigible. Any student so conditioned who fails to attend this class with regularity will not be allowed to present himself for examination.

7. Matriculation certificates will be issued to candidates who have passed the entrance examination conducted by the University, but not to those who have qualified by means of certificates, except when the greater part of the requirements has been satisfied by passing the University examination.

8. The certificates and diplomas named below will, if submitted to the Registrar, be accepted *pro tanto* in lieu of the junior matriculation examination, *i.e.*, in so far as the subjects and standard of the examination taken to obtain them are, to the satisfaction of the Matriculation Board, equivalent to those required for the matriculation examination of this University. Candidates offering certificates which are not a full equivalent will be required to pass the matri-

† See, however, for French, page 111.

culation examination at the regular time set therefor (June or September), in such of the necessary subjects as are not covered thereby.

Intending students who wish to enter by certificates should under no circumstances come to the University without having first obtained from the Registrar a statement of the value of the certificates they hold, as many of these lack one or more essential subjects, or the work done in a subject may not be adequate, or again, the percentage gained may not be sufficiently high (see regulation 5). Moreover, it must be remembered that a certificate may admit to one Faculty and not to another. When a diploma or certificate does not show the marks obtained in the several subjects of the examination, it must be accompanied by an official statement containing this information.

Province of Quebec.

The University School Leaving Certificate.
The Model School Diploma.

Province of Ontario.

Certificates of entrance to the Normal School.
Junior Matriculation Certificate.

Province of New Brunswick.

First Class, Superior and Grammar School Licenses.
Grade XI and XII Certificates.

Province of Nova Scotia.

The Leaving Certificate of Grade XI.

Province of Prince Edward Island.

First Class Teachers' License.
Second Year Certificate of Prince of Wales College.

Province of British Columbia.

Intermediate Grade Certificates.

Province of Manitoba.

Second Class Teachers' Certificate.

Provinces of Alberta and Saskatchewan.

The Departmental Certificate of Standard XI.

Newfoundland.

Associate Grade Certificate.

United States.

Certificates granted by the College Entrance Examination Board and by the New York State Board of Regents.

Great Britain.

The holder of a Higher Certificate or a School Certificate of the Oxford and Cambridge Schools Examination Board, of the Senior Certificate of the Oxford or Cambridge Board of Examiners, of a First Class Certificate of the College of Preceptors or of a Higher Examination Certificate of the Scotch and Welsh Educational Departments is entitled to exemption from the matriculation examination, *pro tanto,* if the candidate has at one and the same examination passed in certain specified subjects.

Applications for exemption from the matriculation examination, based upon certificates of having passed examinations other than those above mentioned, will be considered as occasion may require. Every such application must be accompanied by certificates and full particulars, and should be addressed to the Registrar.

II. MATRICULATION EXAMINATION FEES.

For an examination in six or more papers	$7.00
(For examination at a local centre where not more than four candidates are writing the fee will be determined by the Registrar.)	
For an examination in from three to five papers	4.00
For an examination in one or two papers	2.00
For examination of certificates, in respect of which candidates are exempted from the whole of the matriculation examination	2.00

Matriculation examination fees must be sent to the University Registrar at the time of application for the examination. No application will be accepted unless accompanied by the regular fee.

Certificates will be issued to successful candidates without additional fee.

III. SUBJECTS OF EXAMINATION.

Faculty of Arts.

For candidates intending to take the B.A. course.

1. **English** (two papers).
2. **History** (one paper).
3. **Latin** *or* **Greek** (two papers).
4. One of the following (two papers in each):
   Greek *or* **Latin** (the one not already chosen),
   French, German.
5. **Elementary Mathematics** [**Algebra** (one paper) and **Geometry** (one paper).]
6. One of the following:
   Botany, Chemistry, Physics, Geography—including **Physiography**—(one paper); a **Language** not already chosen (two papers).

For candidates intending to take the B.Sc. course in Arts, or the course leading to the degree of Bachelor of Science in Agriculture (two years in Arts and two in Agriculture).

1. **English** (two papers).
2. **History** (one paper).
3. **Elementary Mathematics** [**Algebra** (one paper) and **Geometry** (one paper).]
4. **French** (two papers).
5. **Latin** or **German** (two papers) or **Physics** (one paper).
6. One of the following:
   Botany, Chemistry, Geography—including **Physiography**—, **Physics**—if not already chosen (one paper); **Latin,** if not already chosen (two papers); **Greek** (two papers).

Candidates who intend ultimately to proceed to the study of medicine are reminded that for medical registration it is necessary to take Latin.

For candidates entering on the course for the Degree of Bachelor of Commerce.

One of the following examinations:—

(1) The ordinary matriculation examination for the B.A., or the B.Sc. Course.

(2) An examination on the following subjects:—

1. **English** (two papers).
2. **History** (one paper).

3. **French** *or* **Spanish** (two papers).
4. Elementary **Mathematics** [**Algebra** (one paper) and **Geometry** (one paper).]
5. Advanced **Mathematics** *or* a **Second Foreign Language.**
6. One of the following, viz.:
   Chemistry, Physics, Geography—including **Physiography**—(one paper).

Holders of Model Diplomas who are certified by the Dean of the School for Teachers of Macdonald College to have taken 75 per cent. of the total marks at their final examinations, with not less than 50 per cent. of the marks in (1) mathematics, (2) French, and (3) Latin or Greek, respectively, will be admitted without further examination as undergraduates of the first year in Arts.

Faculty of Applied Science.

(*For all courses leading to the Degree of B.Sc. in the different branches of Engineering.*)

1. **English** (two papers).
2. **History** (one paper).
3. One of the following:
   French, German, Latin, Greek (two papers).
4. **Elementary Mathematics** [**Algebra** (one paper) and **Geometry** (one paper).]
5. **Advanced Mathematics** [**Algebra** (one paper) and **Geometry** and **Trigonometry** (one paper).]
6. One of the following:
   Botany, Chemistry, Physics (one paper), a **Language** not already chosen (two papers).

(*For the course leading to the Degree of B. Arch.*)

1. **English** (two papers).
2. **History** (one paper).
3. **French** (two papers).
4. **Elementary Mathematics** [**Algebra** (one paper) and **Geometry** (one paper).]
5. **Advanced Mathematics** [**Algebra** (one paper) and **Geometry** and **Trigonometry** (one paper).]
6. One of the following:
   Greek, Latin, German (two papers), **Chemistry, Physics** (one paper).
7. **Freehand and Geometrical Drawing.**

In the case of No. 7, applicants may send specimens of their work to the Head of the Department or take an examination at the time of the regular matriculation examination in September. No examinations taken elsewhere are accepted as equivalent for this subject.

No student will be admitted to the Department of Architecture as an undergraduate, until he has satisfied the matriculation requirements in drawing.

Faculties of Medicine and Dentistry.

1. **English** (two papers).
2. **History** (one paper).
3. **Latin** (two papers).
4. One of the following (two papers in each):—
   French, German, Greek.
5. **Elementary Mathematics** [**Algebra** (one paper) and **Geometry** (one paper).]
6. One of the following:—
   Botany, Chemistry, Physics, Geography—including **Physiography**—(one paper).

It is possible that the requirements for entrance to Medicine may be raised, beginning with the session 1921-22. If so, full particulars will be given in the special Calendar issued by the Faculty or in a separate announcement.

In addition to the certificates mentioned on pages 47 and 48, the following are accepted *pro tanto* in lieu of the matriculation examination in these Faculties:

The degree of Bachelor of Arts obtained from any recognized university.

A certificate of having passed the examination of a Provincial Medical or Dental Council, as the case may be.

In the case of candidates from the United States, a certificate of having passed a State or University examination.

No candidate will be admitted to the Faculties of Medicine or Dentistry without having satisfied all the matriculation examination requirements.

Those who intend to practise medicine in any of the Provinces of Canada will obtain information regarding registration and admission to study by corresponding with the Registrars of the several Provincial Medical Councils. (For names, see page 278.)

The requirements for the admission of women to the Faculty of Medicine are as follows:—

(1). B.A. or B.Sc. degree from a recognized university, or (2) completion of the first two years in the Faculty of Arts at any approved university.

In either case candidates must have satisfied the Matriculation requirements in Latin.

Faculty of Law.

1. **English** (two papers).
2. **History** (one paper).
3. **Latin** (two papers).
4. **French** (two papers).
5. **Elementary Mathematics** [**Algebra** (one paper) and **Geometry** (one paper).]
6. One of the following:
   Botany, Chemistry, Physics, Geography—including **Physiography**—(one paper), **Greek, German** (two papers).

In addition to those who qualify on the certificates mentioned on pages 47 and 48, Bachelors of Arts, Science, or Letters of any Canadian or British University are admitted without examination.

Candidates who intend to practise law or to be admitted to the notarial profession in the Province of Quebec are referred to the statutory requirements as shown on page 269. If they are not graduates they should pass the examination for admission to study required by the Council of the Bar or by the Board of Notaries, as the case may be, before seeking to enter. In that case they will be admitted without examination.

Commencing with the Session 1921-22 no candidate for the B.C.L. degree who intends to practise law in the Province of Quebec will be admitted to the Faculty, who has not previously satisfied all the examination requirements of the Council of the Bar.

Faculty of Agriculture.

(*For the course leading to the Degree of B.S.A.*)

1. **English** (two papers).
2. **History** (one paper).
3. **Latin** *or* **French** or **German** (two papers).
4. **Elementary Mathematics** [**Algebra** (one paper) and **Geometry** (one paper).]
5. Any one of the following:
   Botany, Chemistry, Physics, Zoology (one paper).

A matriculation certificate for entrance to any other Faculty of the University will also be accepted.

Faculty of Music.

(*For the course leading to the Degree of Bachelor of Music.*

1. **English** (two papers).
2. **History** (one paper).
3. Two of the following:
   French, German, Italian, Latin (two papers).
4. **Arithmetic** *or* **Algebra** *or* **Geometry** (one paper).
5. **Rudiments of Music,** musical intervals, scales clefs, time signatures, construction of chords, elementary harmony to chord of dominant seventh (one paper).

IV. REQUIREMENTS IN EACH SUBJECT.

Arithmetic.*

All the ordinary rules, including square root, and a knowledge of the metric system.

One examination paper of two hours.

History and Historical Geography.

The Groundwork of British History, editors Warner and Marten (Blackie & Sons, Edinburgh), Sec. III, from 1714 to 1911; Canadian History (Grant), 1763 to date.

For candidates outside of Canada an option will be allowed in this subject on British History from 1485 to 1911, same text-book as is prescribed above, Secs. II and III.

The geography required will be that relating to the history prescribed.

An option will be allowed on the Ontario requirements in this subject.

One examination paper of two hours.

English.

A. *Composition.* As in the Ontario High School Composition (Copp, Clark Co.) with a short essay on a general subject and two or three others based on the works prescribed for reading, as follows:—George Eliot, Silas Marner (The Macmillan Co. of Canada); Shakespeare, The Tempest (The Macmillan Co. of Canada); Browning's Shorter Poems (The Macmillan Co. of Canada).

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* For candidates intending to enter the Faculty of Music.

These books should be read carefully, but the student's attention should not be so fixed upon details that he fails to appreciate the main purpose and beauty of the work.

Frequent practice in composition is essential.

B. *Literature* (for critical study).—Shakespeare, Julius Cæsar; Poems of the Romantic Revival (Copp, Clark Co., Ltd., Toronto).

Candidates will be expected to have memorized some of the finest passages.

Two examination papers of two hours each, one on Composition and the other on Literature (for critical study).

An alternative paper will be set on the work specified in English for the Junior Matriculation Examination of the Province of Ontario.

Spelling will be tested by the candidates' papers in English. Examiners in other subjects will also take note of mis-spelled words and will report flagrant cases to the Board.

Greek.

Texts:—Philpotts and Jerram, Easy Selections from Xenophon, chaps. 3, 4, 5; Homer, Iliad I, lines 1 to 350.

Grammar.—Knowledge of grammar will be tested by translation and by grammatical questions based on the specified texts.

Translation at Sight from Greek into English.

Two papers of two hours each will be set; one on Xenophon, with questions in grammar, and translation of easy English prose sentences into Greek; the other on Homer, with questions in grammar, and translation at sight.

Alternative questions will be set on the work prescribed in Greek for the Junior Matriculation Examination of the Province of Ontario, if this differs from that specified above.

At the September examination other texts equivalent to those specified may be accepted, if application be made to the Registrar at least one month before the date of the examination.

Latin.

Texts.—Cæsar, De Bello Gallico, Books II and III; and Virgil, Aeneid II (Wainwright, Bell's Illustrated Classics), verses 1 to 505.

Grammar.—Knowledge of grammar will be tested by translation and composition, and by grammatical questions based on the specified texts.

Translation at Sight from Latin into English.

Composition.—Translation into Latin of detached English sentences and easy narrative based on the prescribed texts.

Two papers of two hours each will be set; one on translation at sight, Virgil and accidence; the other on Cæsar, syntax and translation of English into Latin.

Note.—The "Roman" method of pronouncing Latin is recommended.

An alternative paper will be set on the Latin texts prescribed for the Junior Matriculation Examination of the Province of Ontario, if these differ from those specified above.

At the September examination other texts in Latin equivalent to those specified may be accepted, if application be made to the Registrar at least a month before the day of the examination.

French.

Grammar.—A thorough knowledge of French accidence and of those points of syntax which are of more frequent occurrence in an ordinary easy style.

Translation at Sight into English of a French passage of moderate difficulty.

Translation at Sight into French of detached English sentences and an easy English passage. Material for such translation is selected with a view to testing the candidate's general knowledge of French grammar.

Books recommended:—Fraser and Squair's French Grammar or Bertenshaw's French Grammar (Longmans), and Cameron's Elements of French Prose Composition (Holt & Co.).

A list of French texts suitable for class reading can be obtained by applying to the Registrar.

Two papers will be set, of two hours each, one on grammar, including translation of short English sentences into French, and one on translation of continuous passages from French into English and from English into French.

German.

Grammar.—A thorough knowledge of German accidence and syntax, as in Van der Smissen, or any other German grammar of equally good standing.

Translation at Sight into English of a German passage of moderate difficulty.

Translation into German of detached English sentences and of an easy English passage. Material for such translation is selected with a view to exemplifying the points of grammar included within the above limits.

Texts:—(Translation and grammatical study):—

Gluck auf (Ginn & Co.), to be read first, then Fritz auf Ferien (Copp, Clark Co.).

Texts for 1922.—

Guerber, Märchen und Erzaplungen (Heath), omitting Nos. 3, 4, 10, 14 and Poems; Baumbach, Das Habichtsfraulein (Heath).

The Ontario Junior Matriculation requirements in German will be accepted in place of the texts specified above.

At the September examination other texts equivalent to those specified may be accepted, if application be made to the Registrar at least one month before the date of the examination.

Two papers will be set, of two hours each, one on prescribed texts and grammar, including translation of short English sentences into German, and one on translation of continuous passages from German into English and from English into German.

Elementary Mathematics.

Algebra.—Elementary rules, involution, evolution, fractions, indices, surds, simple and quadratic equations of one or more unknown quantities; as in Hall and Knight's Elementary Algebra, to the end of surds (omitting portions marked with an asterisk), or as in similar text-books.

One examination paper of two hours.

Geometry.—The paper shall contain questions on practical and on theoretical geometry. Every candidate shall be expected to answer questions in both branches of the subject.

The questions on practical geometry shall be set on the constructions contained in the annexed Schedule A, together with easy extensions of them. In cases where the validity of a construction is not obvious, the reasoning by which it is justified may be required. Every candidate shall provide himself with a ruler graduated in inches and tenths of an inch, and in centimetres and millimetres, a set square, a protractor, compasses and a hard pencil. All figures should be drawn accurately. Questions may be set in which use of the set square or the protractor is forbidden.

The questions on theoretical geometry shall consist of theorems contained in the annexed Schedule B together with questions upon these theorems, easy deductions from them, and arithmetical illustrations. Any proof of a proposition shall be accepted which appears to the examiners to form part of a systematic treatment of the subject;

the order in which the theorems are stated in Schedule B is not imposed as the sequence of their treatment.

In the proof of theorems and deductions from them, the use of hypothetical constructions shall be permitted. Proofs which are only applicable to commensurable magnitudes shall be accepted.

Schedule A.

Bisection of angles and of straight lines.

Construction of perpendiculars to straight lines.

Construction of an angle equal to a given angle.

Construction of parallels to a given straight line.

Simple cases of the construction from sufficient data of triangles and quadrilaterals.

Division of straight lines into a given number of equal parts or into parts in any given proportions.

Construction of a triangle equal in area to a given polygon.

Construction of tangents to a circle and of common tangents to two circles.

Simple cases of the construction of circles from sufficient data.

Construction of a fourth proportional to three given straight lines and a mean proportional to two given straight lines.

Construction of regular figures of 3, 4, 6 or 8 sides in or about a given circle.

Construction of a square equal in area to a given polygon.

Schedule B.

If a straight line stands on another straight line, the sum of the two angles so formed is equal to two right angles; and the converse.

If two straight lines intersect, the vertically opposite angles are equal.

When a straight line cuts two other straight lines, if (i) a pair of alternate angles are equal, or (ii) a pair of corresponding angles are equal, or (iii) a pair of interior angles on the same side of the cutting line are together equal to two right angles, then the two straight lines are parallel; and the converse.

Straight lines which are parallel to the same straight line are parallel to one another.

The sum of the angles of a triangle is equal to two right angles.

If the sides of a convex polygon are produced in order, the sum of the angles so formed is equal to four right angles.

If two triangles have two sides of the one equal to two sides of the other, each to each, and also the angles contained by those sides equal, the triangles are congruent.

If two triangles have two angles of the one equal to two angles of the other, each to each, and also one side of the one equal to the corresponding side of the other, the triangles are congruent.

If two sides of a triangle are equal, the angles opposite to these sides are equal; and the converse.

If two triangles have the three sides of the one equal to the three sides of the other, each to each, the triangles are congruent.

If two right-angled triangles have their hypotenuses equal, and one side of the one equal to one side of the other, the triangles are congruent.

If two sides of a triangle are unequal, the greater side has the greater angle opposite to it; and the converse.

Of all the straight lines that can be drawn to a given straight line upon a given point outside it, the perpendicular is the shortest.

The opposite sides and angles of a parallelogram are equal, each diagonal bisects the parallelogram, and the diagonals bisect one another.

If there are three or more parallel straight lines, and the intercepts made by them on any straight line that cuts them are equal, then the corresponding intercepts on any other straight line that cuts them are also equal.

Parallelograms on the same or equal bases and of the same altitude are equal in area.

Triangles on the same or equal bases and of the same altitude are equal in area.

Equal triangles on the same or equal bases are of the same altitude.

Illustrations and explanations of the geometrical theorems corresponding to the following algebraical identities:

$$\begin{aligned} k\,(a + b + c \ldots) &= ka + kb + kc + \ldots \\ (a + b)^2 &= a^2 + 2ab + b^2 \\ (a - b)^2 &= a^2 - 2ab + b^2 \\ (a^2 - b^2) &= (a + b)\,(a - b). \end{aligned}$$

The square on a side of a triangle is greater than, equal to, or less than the sum of the squares on the other two sides, according as the angle contained by those sides is obtuse, right, or acute. The difference in the cases of inequality is twice the rectangle contained by one of the two sides and the projection on it of the other.

The locus of a point which is equidistant from two fixed points is the perpendicular bisector of the straight line joining the two fixed points.

The locus of a point which is equidistant from two intersecting straight lines consists of the pair of straight lines which bisect the angles between the two given lines.

A straight line, drawn from the centre of a circle to bisect a chord which is not a diameter, is at right angles to the chord; conversely, the perpendicular to a chord from the centre bisects the chord.

There is one circle, and one only, which passes through three given points not in a straight line.

In equal circles (or in the same circle) (i) if two arcs subtend equal angles at the centres, they are equal; (ii) conversely, if two arcs are equal, they subtend equal angles at the centres.

In equal circles (or in the same circle) (i) if two chords are equal, they cut off equal arcs; (ii) conversely, if two arcs are equal, the chords of the arcs are equal.

Equal chords of a circle are equidistant from the centre; and the converse.

The tangent at any point of a circle and the radius through the point are perpendicular to one another.

If two circles touch, the point of contact lies on the straight line through the centres.

The angle which an arc of a circle subtends at the centre is double that which it subtends at any point on the remaining part of the circumference.

Angles in the same segment of a circle are equal; and, if the line joining two points subtends equal angles at two other points on the same side of it, the four points lie on a circle.

The angle in a semicircle is a right angle; the angle in a segment greater than a semicircle is less than a right angle; and the angle in a segment less than a semicircle is greater than a right angle.

The opposite angles of any quadrilateral inscribed in a circle are supplementary; and the converse.

If a straight line touch a circle, and from the point of contact a chord be drawn, the angles which this chord makes with the tangent are equal to the angles in the alternate segments.

If two chords of a circle intersect either inside or outside the circle, the rectangle contained by the parts of the one is equal to the rectangle contained by the parts of the other.

If a straight line is drawn parallel to one side of a triangle, the other two sides are divided proportionally; and the converse.

If two triangles are equiangular, their corresponding sides are proportional; and the converse.

If two triangles have one angle of the one equal to one angle of the other and the sides about these equal angles proportional, the triangles are similar.

The internal bisector of an angle of a triangle divides the opposite side internally in the ratio of the sides containing the angle, and likewise the external bisector externally.

The ratio of the areas of similar triangles is equal to the ratio of the squares on corresponding sides.

Text-book recommended:—Godfrey and Siddons' Elementary Geometry (Pitt Press, Cambridge), or Hall and Stevens' School Geometry.

An alternate paper will be set on the Ontario Junior Matriculation requirements in this subject.

One examination paper of two hours.

Advanced Mathematics.

Algebra.—The three progressions, ratio, proportion, variation, permutations and combinations, binomial theorem, logarithms, theory of quadratic equations, as in the remainder of Hall and Knight's Elementary Algebra (omitting Chaps. 40 to 44 inclusive), or as in similar text-books.

One examination paper of two hours.

Geometry.

Constructions.

To draw the inscribed, escribed, and circumscribing circles of a triangle.

To construct triangles under given conditions.

To divide a given line externally and internally in medial section.

To construct an isosceles triangle, such that each of the base angles is twice the vertical angle.

To describe a regular pentagon.

To construct a polygon similar to a given polygon, and such that their areas are in a given ratio.

To construct a figure equal in area to a given figure A, and similar to another figure B.

Theorems.

If two sides of one triangle be equal respectively to two sides of another, that with the greater contained angle has the greater base; and conversely.

If a triangle is such that the square on one side is equal to the sum of the squares on the other two sides, the angle contained by these sides is a right angle.

The three medians of a triangle are concurrent.

Perpendiculars from the angles to the opposite sides of a triangle are concurrent.

The complements of parallegrams about the diagonal of any parallelogram are equal.

If the circumference of a circle be divided into n equal arcs:—

(1) The points of division are the vertices of a regular polygon of n sides inscribed in the circle.

(2) If tangents be drawn to the circle at these points, these tangents are the sides of a regular polygon of n sides circumscribed about the circle.

If $OA:OB=OC^2$, OC is a tangent to the circle through A B C.

If two triangles have an angle in each equal, and the sides about two other angles proportional, the remaining angles are equal or supplemental.

The perpendicular from the right angle of a right-angled triangle on the hypotenuse divides the triangle into two triangles which are similar to the original triangle.

The sum of the rectangles contained by the opposite sides of a quadrilateral, about which a circle can be described, is equal to the rectangle contained by its diagonals.

The squares on two sides of a triangle are together equal to twice the square on half the third side and twice the square on the median to that side.

If from the vertical angle of a triangle a straight line be drawn perpendicular to the base, the rectangle contained by the sides of the triangle is equal to the rectangle contained by the perpendicular and the diameter of the circle described about the triangle.

If the vertical angle of a triangle be bisected by a straight line which also cuts the base, the rectangle contained by the sides of the triangle is equal to the rectangle contained by the segments of the base together with the square on the straight line which bisects the angle.

The areas of two similar polygons are as the squares on corresponding sides.

In a right-angled triangle the rectilineal figure described on the hypotenuse is equal to the sum of the similar and similarly described figures on the other two sides.

If three lines be proportional, the first is to the third as the figure on the first is to a similar figure on the second.

If the straight lines joining a point to the vertices of a given polygon are divided (all externally or all internally) in the same ratio, the two points of division are the vertices of a similar polygon.

Two similar polygons may be so placed that the lines adjoining corresponding points are concurrent.

Triangles of equal altitude are as their bases.

In equal circles, angles, whether at the centres or circumferences, are proportional to the arcs on which they stand.

If P is any point on the circumscribing circle of a triangle, ABC, and PL, PM, PN are perpendicular to BC, CA, AB, respectively, LNM is a straight line.

A point P moves so that the ratio of its distances from two fixed points, Q and R, is constant; prove that the locus of P is a circle.

Areas.

Area of a circle.
Area of a sector of a circle.
Area of a segment of a circle.

Use of Squared Paper.

Marking points.
Finding areas of rectilinear and curvilinear figures.
Examples of plotting loci; in particular, the ellipse, hyperbola, and parabola.
Examples of loci and envelopes.

Deductions and Applications.

Deductions from and simple applications of the constructions and theorems given above.

Text-book:—Godfrey and Siddons' Elementary Geometry (Pitt Press, Cambridge), or Hall and Stevens' School Geometry.

An option will be set in Geometry on the work prescribed for Honour Matriculation in the Province of Ontario.

Trigonometry.—Measurement of angles, trigonometrical ratios or functions of one angle, of two angles, and of a multiple angle; as in Lock's Elementary Trigonometry, Chaps. I to XII; Hall and Knight's Trigonometry, Chaps. I to XII, inclusive, omitting Chap. V. or as in similar text-books.

For Trigonometry and Advanced Geometry, one examination paper of three hours.

Botany.

Text-books recommended:—Bergen and Davis, Principles of Botany, or Atkinson, Elementary Botany.

One examination paper of two hours.

Chemistry.

Elementary inorganic chemistry, comprising the preparation and properties of the chief non-metallic elements and their more important compounds, the laws of chemical action, combining weight, etc. Text-book:—"Elementary Chemistry for High Schools," by Nevil Norton Evans (Educational Book Company, Limited, Toronto), Chaps. I to XVI inclusive.

One examination paper of two hours.

Physics.

Properties of matter; elementary mechanics of solids and fluids, including the laws of motion, simple machines, work, energy; fluid pressure and specific gravity; thermometry, the effects and modes of transmission of heat.

Text-book recommended:—Household Physics, by C. J. Lynde (Macmillan Co. of Canada), Chaps. I to XIII inclusive.

One examination paper of two hours.

SEPTEMBER EXAMINATION.

The September matriculation examination in 1920 will commence on Monday, the 20th.

SENIOR MATRICULATION.

(1) *For admission to Second Year Arts—B.A. Course.*

SUBJECTS OF EXAMINATION.

1. **Latin** or **Greek.**
2. **English.**
3. **History.**
4. **Latin** *or* **Greek** (the one not already taken) *or* **French** *or* **German.**
5. **Mathematics** (**Algebra, Geometry** and **Trigonometry**).
6. **Physics.**

Candidates intending to take the Double Course in Arts and Medicine must take German instead of Physics.

(2) *For admission to Second Year Arts—B.Sc. Course.*

1. **Chemistry.**
2. **English.**
3. **French.**
4. **German.**
5. **Mathematics.**
6. **Physics.**

This examination is held under the same regulations as apply in the case of students of the first year. It will be held only in September, commencing in 1920, on the 20th.

FEES.

For the first examination..... $15.00
For a subsequent examination, per subject..... 2.00

REQUIREMENTS IN EACH SUBJECT.

Chemistry.

Text-books:—Alex. Smith, General Chemistry; or Macpherson and Henderson, General Chemistry, as for second year.

English.

Composition.—The examination will be designed mainly to test the candidate's ability to write English. He will be expected to have acquired a fairly clear and accurate style, to be able to arrange material in an effective fashion, and to show discrimination in the choice of words. In preparation for the examination, it is suggested that students be required to write mainly on simple, expository subjects that are within the range of their actual experience.

Carpenter's Rhetoric and English Composition (Macmillan) is recommended as a suitable text-book.

Literature.—The examination will be based on the following texts:—Chaucer's Prologue to the Canterbury Tales; Spenser's Faerie Queene, Book I, Cantos 1 and 2; Shakespeare's Macbeth and As You Like It; Milton's Minor Poems (L'Allegro, Il Penseroso, Lycidas and Comus); and Bunyan's Pilgrim's Progress, Part I.

Candidates will also be expected to read Long's English Literature (Ginn & Co.), Chapters I-VII, inclusive, with special emphasis on the portions most closely connected with the foregoing list of books.

French.

(1) *For B.A. Course.*

Vreeland & Koren, French Syntax and Composition (Holt); Super, Histoire de France (Holt); About, Roi des Montagnes (Heath); Erckmann-Chatrian, Waterloo (Heath); Dumas, La Question d'Argent (Allyn & Bacon); Merimée, Quatre Contes (Holt); Bruce, Récit et Contes de la Guerre de 1870 (Holt).

For 1921:—Augier, Le Gendre de Monsieur Poirier (Heath), in place of Dumas, La Question d'Argent.

(2) *For B.Sc. Course.*

The requirements for Junior Matriculation as on page 55, and in addition, Bowen's First Scientific French Reader (Heath).

German.

(1) *For B.A. Course.*

Van der Smissen und Fraser, High School German Grammar (Copp, Clark Co.); Heyse, Die Blinden (Holt); Moser, Ultimo

(Holt); Stern, Geschichten von deutschen Stadten (American Book Co.).

For 1921:—Storm, In St. Jürzen (Holt), in place of Moser, Ultimo.

(2) *For B.Sc. Course.*

The requirements for Junior Matriculation (page 55), or the course in Beginners' German (page 144).

Greek.

Homer, Iliad, XVIII (Platt, Blackie's Illustrated Series); Euripides, Hecuba (Upcott, Bell's Illustrated Classics); Lysias, pages 108 to 140 in Shuckburgh's Lysias, Orationes (Macmillan).

N.B.—Although the above editions are suggested, others may be used.

The examination will include a paper on grammar, composition and sight translation.

One of the following books is recommended for grammar: First Greek Grammar, Rutherford (Macmillan); Goodwin's Greek Grammar (Ginn & Co.).

History.

Gilbert Murray, Greece (Home Univ. Library); Wheeler, Alexander The Great (Heroes of the Nations); Herodotus, Books VII and VIII (Everyman's Translation); Fowler, Rome (Home Univ. Library); Fowler, Social Life at Rome in the Age of Cicero (Macmillan); Botsford, History of Rome (Macmillan); Livy, Book XXI (Everyman's Translation); Plutarch, Lives of Pericles, Caius Gracchus, Cato the Younger and Julius Cæsar.

Latin.

A.—Virgil, Aeneid, VIII (Tetlow, Ginn). B.—Either (1) Livy, Book VI (Laming, Blackie's Illustrated Latin Series), or (2) Pliny, Selected Letters (Prichard and Bernard, Oxford Clarendon Press), Letters 1 to 40 inclusive, omitting letter 21.

The examination will include a paper on grammar, composition and sight translation.

The grammar recommended is:—New Latin Grammar by Sonnenschein (Clarendon Press. N.B.—Note the exact title.)

Mathematics.

Plane and Solid Geometry.—The equivalent of Books IV, VI and XI of Euclid, with supplementary matter from Hall and Stevens' Euclid.

Algebra.—Hall and Knight's Elementary Algebra (omitting chapters 40-42 inclusive), or the same subject matter in similar text-books.

Trigonometry.—Hall and Knight's Elementary Trigonometry to page 210 and chapter 19; nature and use of logarithms (Bottomley's four-figure tables).

Physics.

A general knowledge of the more important principles of elementary physics will be required.

Text-book:—Kimball, College Physics (Henry Holt & Co., New York, 1912).

ADMISSION TO ADVANCED STANDING.

A student of another university applying for exemption from any subject or subjects which he has already studied is required to submit with his application a Calendar of the University in which he had previously studied, together with a complete statement of the course he has followed and a certificate of the standing gained therein.

The Faculty concerned, if otherwise satisfied, will decide what examination, if any, or what other conditions may be necessary before admitting the candidate.

PHYSICAL EXAMINATION, VACCINATION AND HEALTH.

In order to promote as far as possible the physical welfare of the student body, every student, on entering the University, will be required to pass a physical examination to be conducted by, or under the direction of, the Director of the Department of Physical Education, or by a recognized representative.

By such examination physical defects and weaknesses may be discovered. If such defects and weaknesses are amenable to treatment by corrective gymnastics special exercise will be prescribed and instruction provided. The students will be advised as to what forms of exercise will be likely to prove beneficial or harmful.

Students who do not present themselves for this examination (or otherwise satisfy the Director) before November 1st, will not be allowed to attend the University.

Re-examinations will be held frequently throughout the Session for those students who are of low category, or who are suffering from physical disabilities.

All students entering the University for the first time are required to present a certificate, or other satisfactory evidence, of successful vaccination, failing which, they shall at once be vaccinated in a manner satisfactory to the medical examiner.

For regulations concerning the required physical work for men see page 291.

For regulations concerning students of the Royal Victoria College, see page 294.

The University is responsible for providing medical attention for all students throughout the session.

AGE OF ADMISSION.

Except under special circumstances, no student under the age of sixteen is admitted to the first year courses in Arts, Applied Science or Medicine, or under the age of seventeen to the second year, and no student under the age of seventeen is admitted to the course in Law.

OPENING AND CLOSING DATES OF SESSION, 1920-1921.

The Session 1920-1921 will open in all Faculties on Monday, October 4th, 1920, and on the afternoon of that day (at 5 p.m.) the Principal will deliver the usual opening address in the Assembly Hall of the Royal Victoria College. It will end in the Faculties of Arts, Law and Applied Science on Thursday, May 12th, 1921.

For information regarding registration, see page 69.

CLASSES OF STUDENTS.

There are four classes of students in the University:

(1) Graduates—students who have previously obtained an ordinary degree at McGill, or elsewhere, and who are now pursuing courses for the Master's degree (in Arts, Applied Science or Law), or for the degree of Ph.D.

(2) Undergraduates—students who have passed the matriculation examination and, in the case of second, third and fourth year students, all the examinations of their course in the years below that in which they are registered.

(3) Conditioned undergraduates—those with defective entrance qualifications or who have failed in one or more of the subjects of their course in the year below that in which they are registered.

(4) Partial students—comprising all those who, not belonging to one of the above classes, are taking a partial course of study in the University. In order to obtain admission, such students must pass the matriculation examination in the subject, or subjects, which they wish to take, or, failing this, must be able to satisfy the Head of the Department concerned that they are qualified to proceed with the course.

REGISTRATION AND ATTENDANCE.

1. REGISTRATION.

BETWEEN SEPTEMBER 20TH AND SEPTEMBER 29TH, BOTH DATES INCLUSIVE, STUDENTS IN LAW AND MEDICINE, AND THOSE WITHOUT CONDITIONS IN APPLIED SCIENCE, MAY REGISTER FOR THE SESSION 1920-21 AT THE OFFICE OF THE UNIVERSITY REGISTRAR AND STUDENTS IN ARTS AT THE DEAN'S OFFICE.* THURSDAY, SEPTEMBER 30TH, WILL BE SPECIAL REGISTRATION DAY FOR NEW STUDENTS. ON FRIDAY, OCTOBER 1ST, THOSE WHO HAD BEEN ENROLLED IN ANY PREVIOUS SESSION WILL REGISTER AS FOLLOWS, IF THEY HAVE NOT ALREADY DONE SO:—ARTS STUDENTS IN THE DEAN'S OFFICE,* APPLIED SCIENCE STUDENTS IN THE ENGINEERING BUILDING; AND MEDICAL STUDENTS IN THE OFFICE OF THE UNIVERSITY REGISTRAR. LECTURES WILL COMMENCE ON MONDAY, OCTOBER 4TH. THE COMPLETE REGULATIONS REGARDING REGISTRATION ARE AS UNDER:

1. Candidates entering on a course of study in any Faculty, whether as undergraduates, conditioned undergraduates, partial students, or graduate students, are required to attend at the office of the University Registrar, or such other place as he may designate, some time during the week preceding the opening day of the session, in order to furnish the information necessary for the University records, to register for the particular classes which they wish to attend, and to sign the following declaration in the matricula or register:—

"I hereby accept and submit myself to the statutes, rules, regulations and ordinances of McGill University, and of the Faculty or Faculties in which I am registered, and to any amendments thereto which may be made while I am a student of the University, and I promise to observe the same."

2. On the day immediately before the opening of the session students who had been previously enrolled shall register for particular subjects as follows:—Arts students in the Dean's Office; Medical and Law students at the office of the University Registrar, and Applied Science students in the Engineering Building. With the exception of students in Applied Science, who have conditions, they may also register during the five preceding days at the Registrar's Office.

3. Students who for any reason have failed to register at the times specified above will be permitted to do so at the Registrar's

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*Women students of the Faculty of Arts are also required to enter in the Roll Book of the Royal Victoria College their names, home address and addresses in Montreal. (See page 310).

Office within a limited time thereafter. In the Faculty of Applied Science, students previously enrolled who do not register on the regular registration day, Friday, October 1st, will be allowed to do so thereafter only when they have paid a fee of $5.00 to the Bursar for late registration.

4. The Registrar is empowered to register all students whose records show that they are entitled to attend the classes applied for. All doubtful cases shall be dealt with by committees as follows: in the case of candidates registering for the first time, by a committee of the Matriculation Board; in the case of all others, by a committee of the Faculty concerned.

5. The names of those who have registered for separate classes shall be sent by the Registrar to the Heads of Departments on registration day and subsequently, as new names are received, and only those for whom cards have been received by an instructor shall be given credit for attendance.

6. Students desiring to make a change in their choice of studies must make application to the Registrar to do so on a regular form. This application must be approved by the Dean of the Faculty in which he is enrolled, whereupon due notice will be sent by the Registrar to all parties concerned. No change in registration will be allowed, except under special circumstances after the fifteenth day of the session.

7. Persons who wish to pursue courses in the University without a view to qualifying for a degree shall be classified as partial students and shall not be admitted to any course until they have obtained the permission of the Head of the department concerned. The application must then be approved by the Dean of the Faculty or the committee appointed for this purpose.

8. In the Faculty of Arts, where there is a choice of courses, students in attendance shall be required to choose their electives for the next year before the close of the preceding session, or (in cases where this cannot be done) not later than one week before the opening of the session.

2. ATTENDANCE.

1. Students are required to attend at least seven-eighths of the total number of lectures in any one course.* Those whose unexcused absences exceed one-eighth of the total number of lectures in a course shall not be permitted to come up for the regular examination in that course; and, in the Faculty of Applied Science, those whose unexcused absences have exceeded one-fourth of the total number of lectures in any course must repeat the work in that course.

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* Physical education is included under this regulation. (See page 293.)

Excuses on the ground of illness or domestic affliction shall be dealt with only by the Deans of the respective Faculties.

2. A record shall be kept by each professor or lecturer, in which the presence or absence of students shall be carefully noted. This record shall be submitted to the Faculty when required.

3. Credit for attendance on any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class room or laboratory. In the case last mentioned the student may, at the discretion of the Professor, be required to leave the room. Persistence in any of the above offences against discipline shall, after admonition by the Professor, be reported to the Dean of the Faculty concerned. The Dean may, at his discretion, reprimand the student, or refer the matter to the Faculty at its next meeting, and may in the interval suspend from classes.

4. The following special regulation with regard to marking the attendance of students has been adopted by the Faculties of Arts and Applied Science:—

Lectures will commence at five minutes after the hour, on the conclusion of the roll call. After the commencement of a lecture students are not allowed to enter, except with the permission of the Professor. If permitted to enter, they will, on reporting themselves at the close of the lecture, be marked "late." Two lates will count as one absence. Lectures end at five minutes before the hour.

STUDENTS' EXPENSES.

1. BOARD AND RESIDENCE.

No college residences have as yet been erected for men students, but dormitory accommodation for about 60 is provided in Strathcona Hall, the home of the McGill Y.M.C.A. Full particulars concerning terms of residence, etc., may be obtained from the Secretary of the Association, 348 Sherbrooke street west, Montreal, who will also make arrangements to have students who are strangers to the city met on arrival and helped to secure lodgings, if due notice is sent of the station and time at which they will arrive.

A list of suitable boarding and lodging houses in the city is prepared about a fortnight before the opening of the session each year, and may be obtained on application to the Secretary of the McGill Y.M.C.A., Strathcona Hall.

Women students may board and reside either in private houses or in the Royal Victoria College, which provides, in addition to separate lecture rooms, residental accommodation for the women students of the University. The expense of board and residence for the session in the Royal Victoria College is $340. Further particulars will be furnished by the Warden.

Board and lodging can be obtained in private houses in the vicinity of the University buildings at a cost of from $50 and upwards per month; or, separately, board at $40 to $50 per month, rooms from $12 to $20 per month.

Board is furnished in the McGill Union at low rates. The dining room, which is a special feature of the Union, will accommodate over 120 students at a time. There is also a lunch counter where meals are served *à la carte*.

2. APPROXIMATE ESTIMATE OF COST OF COURSE.

(The session extends from October 1st to May 1st.)

Faculty of Arts (men).*	Minimum	Moderate
Tuition Fees	$100	$100
Fee for Athletics, Union, etc.	10	10
Board and Lodging	350	420
Books and Apparatus	20	25
	$480	$555

* For estimate of expenses for women students see page 311, and the Announcement of the Royal Victoria College.

Faculty of Applied Science.

(The session extends from October 1st to May 1st.)

	Minimum	Moderate
Tuition Fees	$205	$205
Fee for Athletics, Union, etc.	10	10
Board and Lodging	350	420
Books and Instruments	40	50
	$605	$685

Students attending summer courses, required in certain years, for an additional period of one month, will have to spend from $50 to $60 extra in those particular years.

Faculty of Medicine.

(The session extends from October 1st to May 25th.)

	Minimum	Moderate
Tuition Fees	$200	$200
Fee for Athletics, Union, etc.....	10	10
Board and Lodging	400	480
Books, Instruments, etc.	100	110
	$710	$800

Undergraduates in Arts residing in affiliated theological colleges, with a view to a course in theology, are able to obtain board and lodging for less than the minimum shown above, and in all Faculties the expense under the head of "Books and Instruments" can be reduced by purchasing these at second-hand.

It will be noticed that in the above estimate no account is taken of personal expenses, such as cost of clothes, laundry, etc., nor yet of the caution money deposit which is made by each student at the commencement of the session. This amounts to $5.00 in the Faculties of Arts and Law and $10.00 in the Faculties of Medicine and Applied Science. It might be well also to reckon on at least $20.00 or $25.00 per annum for subscriptions of various kinds.

LOAN FUNDS.

1. A fund has been established by the Applied Science Class of 1899, to be known as "The Class of 1899 Fund," for the purpose of aiding, each year, one or more students who, upon the completion of their second year work, require assistance to enable them to finish their course of study. The loans from this fund made to students will be repayable after graduation. Applications should be made through the Dean.

2. The George Henry Frost Fund was created by the gentleman whose name it bears for the purpose of aiding students who, when commencing the work of the second or subsequent years, in the Faculty of Applied Science, require assistance to enable them to complete their course. Loans from this fund will bear interest at three per cent. and will be repayable within three years after graduation. In making loans from this fund the academic standing of the students will be taken into account.

SCHOLARSHIPS, FELLOWSHIPS, MEDALS AND PRIZES.

1. SCHOLARSHIPS, EXHIBITIONS AND PRIZES—GENERAL.

1. The Rhodes Scholarship.—This scholarship is of the annual value of £300 sterling and is tenable at the University of Oxford for three years. The scholar must be a British subject, must be over 19 and under 25 years of age, and must have reached at least the end of his sophomore or second year in the University.

Rhodes Scholarships have been awarded by McGill as follows:—1904, Herbert J. Rose, B.A., and John G. Archibald, B.A.; 1905, Talbot M. Papineau, B.A.; 1906, Alexander R. McLeod, B.A.; 1908, Frank E. Hawkins, B.A.; 1911, Walter J. Pearse; 1913, W. E. Gladstone Murray, B.A.; 1915, Percy E. Corbett, M.A.; 1919, Terence William Leighton MacDermot, B.A.

Beginning with 1920 the old method of selection by the Universities of the Province in a certain order of rotation was discontinued, and now scholars are chosen by a general committee and the competition is open to candidates from the whole Province without any regard to Universities at all.

2. Science Scholarships granted by Her Majesty's Commissioners for the Exhibition of 1851.—These scholarships, of the value of £200 sterling a year, are tenable for two, or, in rare instances, three years. They are limited, according to the Report of the Commission, "to those branches of science, such as physics, mechanics and chemistry, the extension of which is specially important for our national industries." Their object is not to facilitate ordinary collegiate studies, but "to enable students to continue the prosecution of science with the view of aiding in its advance or in its application to the industries of the country."

It is open to students of not less than three years' standing who have shown evidence of capacity for original research, and is tenable at any university or other institution approved by the Commission.

A nomination to one of these Scholarships may be granted to McGill University in 1921, in which event applications should be sent to the Registrar on or before March 1st.

This Scholarship has been awarded as follows:—

Evans, P. N., 1891; Macphail, J. A., 1892; King, R. O., 1895; Gill, J. L. W., 1897; McLean, W. B., 1899; McClung, R. K. 1901; Cooke, H. Lester, 1903; Johnson, F. M. G., 1905; Simpson, J. C., 1907; Boyle, R. W., 1909; Shaw, A. Norman, 1911; Meldrum, W.

Buell, 1912; Maass, Otto, 1913; Warneford, Frank H. S., 1915; Russell, John, 1919; Bieler, Etienne S., 1920.

3. The McGill Delta Upsilon Memorial Scholarship.—This scholarship has been founded by the McGill Chapter of the Delta Upsilon Fraternity to perpetuate the memory of the members of that Chapter who gave their lives in the Great War.

It is open to all graduates of the University, and the following considerations will govern the award:—(a) The general scholarship of the candidate; (b) His need of financial assistance for further study; (c) The general usefulness to the community of the special branch of study he proposes to follow; (d) The likelihood that the candidate will reflect credit on the University.

The present value of the scholarship is about $750.

4. The Dr. T. Sterry Hunt Research Scholarship in Chemistry.—It is proposed to offer this scholarship each year to graduate students in the Faculties of Arts and Applied Science.

5. The P. S. Ross Exhibition of $100.00, founded by Mr. P. D. Ross, B.A.Sc., in memory of his late father, Mr. P. S. Ross, and given through the Ottawa Valley Graduates' Society, will be awarded annually to the candidate from the Ottawa Valley for entrance to any Faculty, who obtains the highest percentage at the June matriculation examination, and attends the University during the ensuing session. Candidates must apply before July 1st.

6. The Ottawa Valley Graduates' Society Exhibition, value $50. This exhibition will be awarded annually to the candidate from the Ottawa Valley for entrance to any Faculty who obtains the second highest percentage at the June matriculation examination and attends the University during the ensuing session. Applications must be made before July 1st.

7. The Sidney J. Hodgson Exhibitions, founded by his father, Arthur J. Hodgson, Esq., in memory of his late son, Sidney James Hodgson, a student of the First Year in Arts, who was killed in action on September 27th, 1918, while serving in the 66th Battery of the Canadian Field Artillery. One of these exhibitions is of the value of $125, tenable in the Faculty of Arts, and another of the value of $300, tenable in the Faculty of Applied Science or of Medicine. They are open to pupils of the Westmount High School who have been in attendance for at least one year, and will be awarded on the result of the June matriculation examination to the two pupils who obtain the highest percentage on the subjects required for entrance to the Faculties of Arts, Applied Science or Medicine, as the case may be, and who attend the University during the ensuing session.

8. The Chester Macnaghten Prize of the value of $25.00 in books, established by Russell E. Macnaghten, Esq., M.A., in memory of his late uncle, will be awarded annually, through the University Literary and Debating Society, for reading in English.

II. SCHOLARSHIPS IN ARTS.

GENERAL REGULATIONS.

1. No student can hold more than one scholarship at the same time.

2. Scholarships will not necessarily be awarded to the candidates who have obtained the highest marks. An adequate standard of merit will be required.

3. If in any college year there be not a sufficient number of candidates showing adequate merit, any one or more of the scholarships offered for competition may be given to more deserving candidates in another year.

4. A successful candidate must, in order to retain his scholarship, proceed regularly with his college course to the satisfaction of the Faculty.

5. The annual income of the scholarships will be paid in four instalments, viz:—In October, December, February and April, about the 20th of each month.

SCHOLARSHIPS AVAILABLE IN ARTS.

The Macdonald Scholarships, founded by the late Sir William C. MacDonald. Ten scholarships of the annual value of $125 each.

The Jane Redpath Scholarship, founded by the late Mrs. Redpath, of Terrace Bank, Montreal:—value $115; open to both men and women.

The Charles Alexander Scholarship (for men students), founded by the late Charles Alexander, Esq., Montreal, for the encouragement of the study of Classics and other subjects:—value, $115.

The Major H. Mills Scholarship, founded by bequest of the late Major Hiram Mills—value, $115.

The Barbara Scott Scholarship, founded by the late Miss Barbara Scott, Montreal, for the encouragement of the study of the Classical languages and literature, to be awarded to "the student excelling in classics in the First Year":—value, $115.

Four Mackenzie Scholarships for Economics and Political Science, founded in memory of the late Hon. Alexander Mackenzie:—value $50 to $100. (For particulars, see page 86.)

The Hannah Willard Lyman Scholarship:—value, $80.

The Dr. Barclay Scholarship, to be awarded in the Classical Department:—value, $50.

The Houston Scholarship, available for students studying for the Presbyterian Ministry:—value, $50.

FIRST YEAR SCHOLARSHIPS IN ARTS.

Scholarship Granted by the Graduates' Society of the District of Bedford.

This scholarship, of the value of $120, will be awarded annually to a "matriculated student in Arts whose parents reside in the District of Bedford, and whose candidature has been approved by a committee of the Society."

Narcissa Farrand (Mrs. N. Pettes) Scholarship.

This scholarship, of the value of $300 ($150 for two years), founded by Mr. and Mrs. H. V. Truell, of Sweet Acre, Knowlton, Que., and endowed by them with the sum of $7,000 out of the Narcissa Farrand Fund, will be awarded annually to the candidate from the Eastern Townships who obtains the highest marks at the Arts matriculation examination in June, and who has had his domicile in the Eastern Townships for five consecutive years immediately preceding the examination. Intending competitors must apply to the Registrar before July 1st each year.

The Trafalgar Scholarship.

This scholarship was founded in 1913 by certain friends and former pupils of Miss Grace Fairley, to signalize her long and faithful services to education in Montreal, and particularly as head of the Trafalgar Institute. It is of the value of $135, is tenable for one year only, and will be awarded annually to the student of Trafalgar Institute who obtains the highest marks in the June matriculation examination and matriculates as an undergraduate in the Faculty of Arts.

Scholarship for Holders of Model Diplomas.

A scholarship of $150 is offered annually in the Faculty of Arts to holders of Model diplomas obtained after a course of study in Macdonald College, under the following conditions:—

(1) Candidates must apply through the Head of the School for Teachers before May 1st.

(2) They must satisfy the entrance requirements of the Faculty of Arts and declare their intention to proceed to a First Class Academy diploma following the course prescribed by the University.

The scholarship will be awarded on the academic subjects of the examination for the Model diploma; but although the practice marks will not be taken into account directly, the opinion of the Macdonald College staff as to the general fitness of the applicant for a University course will be considered. In case there is no applicant from the graduating class in any year, applications from graduates of previous years will be considered on their merits.

Holders of this scholarship will be permitted to count practice teaching and post-graduate work towards the fulfilment of their agreement to teach for a period of three years in the Province of Quebec.

University Entrance Scholarships.

The following scholarships will be offered for competition in June, 1921, to candidates for admission to the first year:—

Five scholarships, of the value of $150.00 each (three open only to candidates not residing on the Island of Montreal), three of the value of $100.00 each and two of the value of $75.00 each (one of each value open only to candidates not residing on Montreal Island), will be awarded on the result of the matriculation examination in June. In addition, two scholarships open to women only and conditional on residence in the Royal Victoria College, are offered each year, one of the value of $200, and one of $100.

The Hon. Robert Jones' Scholarship.

The Hon. Robert Jones' Scholarship, having a value of One Hundred and Twenty-five Dollars ($125.00) per annum, "is granted from time to time to some poor student for the full term of study in the Faculty of Arts."

Application for this scholarship should be made through the Dean of the Faculty of Arts. In awarding the scholarship the standing of the student in the matriculation examination will be considered, and the scholarship will not be continued if the standing of the student at any time during his course proves to be unsatisfactory.

SECOND YEAR SCHOLARSHIPS IN ARTS.†

Six scholarships, ranging in value from $100 to $150 each, will be offered for competition to students entering the second year, in September, 1920.

The subjects of examination are divided into two groups as follows:—

Group I.—Greek, Latin, French, German, English.

Group II.—Mathematics, Physics.

Candidates are required to offer two major subjects and one minor subject. The two major subjects must be selected from the same group, the minor subject from either group, the examination in the major subject being more extensive than that in the same subject presented as a minor subject. Two scholarships of $150 each and two of $100 each are offered to candidates taking their major subjects from group I, and one of $150 and one of $100 to candidates taking their major subjects from group II.

The above scholarships are open to all undergraduates in Arts, whether they are taking the B.A. or the B.Sc. course.

Requirements in each Subject.

Greek.

(*As a Major Subject.*)

I. (a) Homer, Odyssey I.
(b) Euripides, Hecuba.
II. Composition and translation at sight.
III. History:—Greek History for Schools, Edmonds (Camb. Univ. Press) down to p. 217.

(*As a Minor Subject.*)

The same as above, omitting I (a) and III.

Latin.

(*As a Major Subject.*)

I. (a) Tacitus, Histories, Book I, cc. 1-50 inc.
(b) Gleason, a Term of Ovid, pp. 49-84.
II. Composition and translation at sight.
III. Roman History:—Short History of Rome, Ferrero and Barbagallo, Putnam, pp. 133-360.

N.B.—Before reading the above History candidates should write to Prof. Slack for a list of corrections.

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† Second year scholarships are open to students who have passed the first year sessional examinations, provided that not more than two sessions have elapsed since their admission to the University.

(*As a Minor Subject.*)

The same as above, omitting III and either I (a) or I (b).

French.

(*As a Major Subject.*)

(a) Grammar; (b) translation at sight of an English passage into French; (c) French essay on a prescribed subject; (d) translation of passages taken from the prescribed texts; (e) a critical study of the following texts, tested by questions in the French language to be answered in French:—

Corneille, Cinna (Holt); Molière, Le Malade Imaginaire (Macmillan); Thiers, Expédition de Bonaparte en Egypte (Holt); France, Le Crime de Sylvestre Bonnard (Holt). In 1921: Loti, Pêcheurs d'Islande (Rivington), in place of Crime de Sylvestre Bonnard.

(*As a Minor Subject.*)

The same as above, omitting Molière and Thiers.

German.

(*As a Major Subject.*)

(a) Grammar; (b) translation at sight from German into English, and from English into German; (c) a critical study and translation of the following texts:—

Schiller, Jungfrau von Orleans, with vocabulary (Heath & Co.); Kleist, Michael Kohlhaas (Holt); Fulda, Talisman (Heath).

(*As a Minor Subject.*)

The same as above, omitting Schiller.

English and History.

(*As a Major Subject.*)

Shakspere, Richard II. (ed. Macmillan); Macaulay, History of England, Vol. I., Chap. 3 (England in 1685); Scott, Marmion.

History:—Sabatier, St. Francis of Assisi, or Symonds, J. A., A Short History of the Renaissance in Italy.

(*As a Minor Subject.*)

The same as above, omitting Macaulay and Scott.

Mathematics.

(*As a Major Subject.*)

Plane Geometry.—Ordinary and advanced section courses of the First Year.

Algebra.—Hall and Knight's Algebra as in the advanced course of the First Year; also Fine's College Algebra (Ginn & Co.), pp. 424 to 511.

Plane Trigonometry.—As in the advanced course of the First Year; also Carslaw's Trigonometry (Macmillan & Co.), pp. 144 to 149, and Chaps. 14, 15, 17, 18.

(*As a Minor Subject.*)

The mathematics of the First Year ordinary course.

Physics.

(*As a Major Subject.*)

Duncan and Starling's Heat, Light, and Sound (Macmillan).

(*As a Minor Subject.*)

Kimball's "College Physics" (Henry Holt & Co.).

THIRD YEAR SCHOLARSHIPS IN ARTS.*

The following five scholarships, of the value of $150 per year, for two years, will be open for competition to students entering the third year in September, 1920.

One for English and another language.

One for Latin or Greek and another language† (English excepted).

One for French or German and another language† (English excepted).

Two for Mathematics and Physics.

In addition to the above scholarships, the three following scholarships, of the value of $150.00 each, are also offered for competition to students entering the third year:—

One for Philosophy and Psychology.

One for Chemistry and Physics.

One for Biology.

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* Third year scholarships are open to students who have passed the second year sessional examination, provided that not more than three sessions have elapsed since their admission to the University; and also to candidates who have obtained what the Faculty may deem equivalent standing in some other university, provided that application be made before the end of the session preceding the examination. Double course students (Arts and Applied Science or Arts and Medicine) are not eligible for these scholarships.

† The language not chosen in the first instance may be taken as the second language.

A bursary of $25 will be awarded to that one of the holders of these three scholarships who is considered most deserving on entering the fourth year.

An exhibition of $50, to be known as the Hannah Willard Lyman Exhibition, will also be awarded annually in the fourth year, to the best woman student who may have been the holder of a third year scholarship in biology or chemistry or philosophy. Should there be no sufficiently deserving candidate, this exhibition may be awarded at the beginning of the third year to a woman candidate who may fail to obtain one of the five regular scholarships offered to third year students.

Of the two third year scholarships assigned to mathematics and physics, one is open to women only, the other to men only. Should, however, no candidate be eligible for the scholarship open to men only, it may be awarded to a woman.

In the award of third year scholarships, the second year standing of candidates, in the subjects selected, will be taken into account.

In the event of no candidate of sufficient merit presenting himself, the scholarship assigned to any group of subjects may, at the discretion of the Faculty, be awarded in another group, whether a scholarship has been already assigned to that group or not.

REQUIREMENTS IN EACH SUBJECT.

Greek.

Prose composition; translation at sight.

Study of the following texts:—Aeschylus, Persae; Homer, Odyssey I and II.

Greek History:—Greek History for Schools, Edmonds (Cambridge Univ. Press), down to p. 217.

Latin.

Prose composition; translation at sight.

Study of the following texts:—(a) Horace, Odes III; (b) Tacitus, Hist. I.; (c) Gleason, a Term of Ovid, pp. 49-84.

Short History of Rome, Ferrero and Barbagallo, Putnam, pp. 242 to end.

N.B.—Before reading the above History, candidates should write to Prof. Slack for a list of corrections.

English and History.

Literature.—Shakspere, Hamlet (ed. Deighton, Macmillan); Milton, Paradise Lost, Books I and II, ed. Macmillan (Macmillan);

Ruskin, Sesame and Lilies, Crown of Wild Olive; Arnold, Essays in Criticism, Second Series (Macmillan's Colonial Library).

History.—The selections from Gibbon, Decline and Fall of the Roman Empire, required for History Honour students in the Fourth Year, Chaps. 1, 2, 3, 23, 50, 57, 58.

Composition.—The candidate will be required to write an essay on some subject connected with the literature or history prescribed. High marks will be given for this subject.

French.

(a) French essay; (b) translation at sight from French into English, and from English into French; (c) translation of passages from the prescribed texts; (d) questions on the subject matter of the following texts, and the lives of their authors:—Molière, Le Médecin Malgré Lui (Heath); Racine, Phèdre (Heath); Hugo, Les Misérables (Heath); Taine, Introduction à l'Histoire de la Littérature Anglaise (Heath); Rostand, Cyrano de Bergerac (Holt).

In 1921: Taine, L'Ancien Régime (Heath), in place of Taine, Introduction, and Hugo, Notre Dame de Paris (Ginn), in place of Les Misérables.

The entire examination will be held in the French language.

German.

(a) German essay; (b) translation at sight from German into English, and from English into German; (c) critical study and translation of the following texts:—Goethe, Dichtung und Wahrheit, Books I, II, III (Heath); Schiller, Das Lied von der Glocke (Holt), and Wallenstein's Lager (Holt); Eichendorff, Aus dem Leben eines Taugenichts (Holt); Heine, Prose Selections (Macmillan).

Mathematics and Physics.

Mathematics.—Differential and Integral Calculus—Lamb's Infinitesimal Calculus, pp. 1 to 250.

Analytic Geometry.—Fine and Thompson's Analytical Geometry (Macmillan & Co.); and the corresponding Chapters of C. Smith's Analytical Geometry.

Higher Trigonometry.—Carslaw's Plane Trigonometry.

Physics.—Edser's Light (Macmillan).

In addition to the above scholarships three of the value of $40 each will be offered as follows:—

One for Philosophy and Psychology.
One for Chemistry and Physics.
One for Biology.

REQUIREMENTS IN EACH SUBJECT.

Philosophy and Psychology.

Mellone, Text-book of Logic, Chaps. 1-10 inclusive; Mill, System of Logic, Book II, Chap. 3, and Book III, Chaps. 1-12, 14 and 21; Pillsbury, Fundamentals of Psychology; Berkeley's "Three Dialogues between Hylas and Philonous" (Open Court Philosophical Classics).

Chemistry and Physics.

Chemistry.—Modern Inorganic Chemistry (J. W. Mellor, 1912 edit.)

Subject of Essay.—"Aqueous Solution."

Physics.—Draper's Heat (Blackie & Son).

Biology.

Animal Biology.—G. H. Parker, The Elementary Nervous System (Lippincott, Philadelphia), 1919; Dendy (Constable & Co., London, 1912).

Reference Book:—Parke and Haswell, Text-book of Zoology, Vol. I (Macmillan, 1910).

Plant Biology.—Candidates for this scholarship will be expected to pursue an independent study of classification of plants during the summer months. An original collection of 75 species must be made and properly identified, and must form a basis of an understanding of the general interrelations of the larger groupings. A few lectures will be given during the latter part of the session for the benefit of those who wish to undertake this work. These will deal with the rationale of taxonomy and methods of collection and study. Advice as to the proper literature will also be given at this time.

Candidates for any of the above must make application to the Registrar before July 1st.

The following special scholarships are also available in the third and fourth years:—

Mackenzie Scholarships.

Four scholarships, known as the Mackenzie Scholarships, are awarded annually in the Department of Economics and Political Science. Two of these, of the value respectively of $100 and $50, tenable for one year, are awarded on the result of the second year examination in political economy (Economics, Course 1), but no student is eligible who has not completed the work of this year. The tenure of the scholarships is conditional upon the holders pursuing their studies in the honour work in economics and political science of the third year. The other two scholarships, of the value respectively of $100 and $50, are awarded on the results of the honour examination of the third year in economics and political science. The scholarships will not be awarded except on satisfactory evidence of merit; their tenure is conditional upon the holders pursuing their studies in the honour work in economics and political science of the fourth year.

A fourth year Mackenzie scholarship may be held by a student who holds another; a third year scholarship cannot.

GRADUATE SCHOLARSHIP IN ARTS.

The Allen Oliver Scholarship (in Economics and Political Science).

This scholarship has been established by Mrs. Frank Oliver, of Edmonton, Alta., in "proud and loving memory of her son, the late Allen Oliver, B.A.,* M.C., Lieutenant 26th Battery, C.F.A., who was killed in action at the Somme on November 18th, 1916." The scholarship will be awarded annually to the student who stands highest in First Class Honours in the Department of Economics and Political Science at the final B.A. examination, and the holder is required to pursue his studies in Economics and Political Science in some university outside of Canada. The present value of the scholarship is about $650.

The first award will be made in 1921 (class entering in 1917).

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* Lieut. Oliver was an Honour graduate of 1915 in the Department of Economics and Political Science.

III. MEDALS IN ARTS.

Gold Medals will be awarded in the B.A. Honour examinations to students who take the highest honours of the first rank in the subjects stated below, and who shall have passed creditably the ordinary examination for the degree of B.A., provided they have been recommended therefor to the Corporation by the Faculty, on the report of the examiners:—

The Henry Chapman Gold Medal, for Classical Languages and Literature.

The Prince of Wales Gold Medal, for Mental and Moral Philosophy.

The Anne Molson Gold Medal, for Mathematics and Natural Philosophy.

The Shakespeare Gold Medal, for English Language and Literature.

The Logan Gold Medal, for Geology, Mineralogy and Palæontology.

The Major Hiram Mills Gold Medal, for Biology.

The Governor-General's Gold Medal, for Modern Languages and Literature.

The Allen Oliver Gold Medal, for Economics and Political Science (founded by Mrs. Frank Oliver, in memory of her late son, Allen Oliver, B.A., M.C., Lieutenant 26th Battery, C.F.A., who was killed in action at the Somme, on November 18th, 1916).

In addition to the above, certain medals are offered annually by the Alliance Française, at the discretion of the Department of Modern Languages.

If there be no candidate for any medal, or if none of the candidates fulfill the required conditions, the medal will be withheld, and the proceeds of its endowment for the year may be devoted to prizes in the subject for which it was intended.

IV. PRIZES IN ARTS.

1. The Neil Stewart Hebrew Prize.—An annual prize of $15 is open to all undergraduates and graduates of this University, and also to graduates of any other university, who are students of theology in some college affiliated to this University. It will be awarded on the result of the sessional examination in Hebrew of the second year.

The prize, founded by the late Rev. C. C. Stewart, M.A., and terminated by his death, was re-established by the liberality of the late Neil Stewart, Esq., of Vankleek Hill.

2. Early English Text Society's Prize.—This prize, the annual gift of the Early English Text Society, will be awarded for proficiency in the subjects of the language group in the English honour curriculum of the third and fourth years.

3. New Shakespeare Society's Prize.—This prize, the annual gift of the New Shakespeare Society, open to graduates and undergra-

duates, will be awarded for a critical knowledge of the following plays of Shakespeare:—Hamlet, Macbeth, Othello, King Lear.

4. Charles G. Coster Memorial Prize.—This prize, of the value of $25.00, and intended as a tribute to the memory of the late Rev. Chas. G. Coster, M.A., Ph.D., Principal of the Grammar School, St. John, N.B., is offered for competition, by Mr. Colin H. Livingstone, B.A., to undergraduates (men and women) from the Maritime Provinces (Nova Scotia, New Brunswick and Prince Edward Island). It is awarded on the decision of the Dean of the Faculty of Arts to that student in Arts from the Maritime Provinces who shows the greatest proficiency in the examinations at the end of the session.

5. Annie Macintosh Prize.—The income of the sum of $1,130.00 ($425 of which was subscribed by the pupils and friends of the late Miss Annie Macintosh, and $618.97 bequeathed by the late Miss L. G. Macintosh), will be offered as a prize or prizes, to students of the Royal Victoria College in such subject, or for such work as the Faculty may determine.

6. Penhallow Prize.—The income of the sum of $1,100 collected by the Arts Undergraduates Society in 1911, will be assigned annually to the Department of Botany for a prize to be known as the "Penhallow" prize.

7. Henry Chapman Prize.—This prize, of the value of $15.00, is given in such modern languages as may be taught in the Faculty of Arts, other than English, and Hebrew shall also be included.

8. The names of those who have taken honours or certificates will be published in order of merit, with mention, in the case of students of the first and second years, of the schools in which their preliminary education has been received.

V. SCHOLARSHIPS, EXHIBITIONS AND PRIZES IN APPLIED SCIENCE.

I.—Awarded on the result of Special Examinations.

1. Two prizes, each of $10.00, presented by J. M. McCarthy, Esq., B.A.Sc., to students entering the third year, for proficiency in levelling and transit work.

2. Messrs. Babcock & Wilcox, Limited, offer every second year, a scholarship of the value of $200.00 per annum, tenable for two years, to the best all-round man among the Engineering students who, having completed the work of the first and second years, is about to enter the third year, and who intends to make a special study of the subject of Steam Engineering. The conditions under which this scholarship is awarded may be ascertained on application to the Dean of the Faculty.

3. Scholarships covering four years' tuition in the Faculty of Applied Science are awarded annually by the Canadian Pacific Railway Company. These are open for competition to apprentices and other employees of the Company under twenty-one years of age, as

well as to minor sons of employees, and the award is made on the result of the June Matriculation Examination. For full particulars as to number of scholarships available, etc., application should be made to C. H. Buell, Esq., Staff Registrar and Secretary, Pension Department, C.P.R. Offices, Montreal.

4. The P. S. Ross, Ottawa Valley, and Sidney J. Hodgson Entrance Scholarships. For particulars, see page 76.

II.—Awarded on results of Sessional Examinations or for special theses.

1. A British Association exhibition of $50.00 and a prize of $25.00 at the end of the third year, to the students who obtain the highest and the second highest aggregate marks, respectively, in the sessional examinations in strength of materials and mechanics of the third year.

2. Three prizes of $25.00, $15.00 and $10.00, at the end of the second year, to the students obtaining the highest, and the second and third highest, aggregate marks, respectively, in the sessional examinations in analytic geometry, calculus and mechanics of the second year.

3. A Scott exhibition of $50.00, founded by the Caledonian Society of Montreal, in commemoration of the centenary of Sir Walter Scott, and two prizes of $25.00 and $15.00, at the end of the first year to the students obtaining the highest, and the second and third highest aggregate marks, respectively, in the sessional examinations in the mathematics, descriptive geometry and physics of the first year.

4. Workshop Prize.—A prize of $20.00 presented by Mr. C. J. Fleet, B.A., B.C.L., for bench and lathe work in the wood-working department, open to students of not more than two terms standing in workshop practice.

5. A prize of $50.00, presented by Mr. James Tighe, B.A.Sc., for research work in hydraulics.

6. An exhibition offered to graduates by Mr. A. E. Childs, M.Sc., for a special research on "The flow of gas through pipes under pressure."

7. A prize of $25.00, presented by Messrs. Anglin's, Ltd., to the student obtaining the highest aggregate marks in the subject of architectural drawing in the second year of the Department of Architecture.

8. A prize of $25.00, presented by Messrs. Anglin's, Ltd., to the student obtaining the highest aggregate marks in construction (Courses Nos. 24, 25, 26, 27) in the second and third years in the Department of Architecture.

9. The Louis Robertson Prize, founded by Mr. and Mrs. John A. Robertson, in memory of their son, John Louis Armour Robertson, who was killed in the Great War, on July 18th, 1916. To be awarded to the undergraduate student who ranks highest in Design in the final year of the course in Architecture.

10. The following prizes are offered for the best summer essays:—

To the students of the Civil Engineering course a prize of $25.00, presented by Charles Graham Drinkwater, Esq., B.Sc.

To the students of the Electrical Engineering course, from a friend, a prize of $25.00.

To the students of the Metallurgical course, a prize of $25.00, presented by Milton L. Hersey, Esq., D.Sc.

To the students of the Mechanical Engineering course, a prize of $25.00 presented by the Crosby Steam Gauge and Valve Co.

To the students of the Mining Engineering course, a prize of $25.00, presented by J. T. McCall, Esq.

Four prizes, each of the value of $25.00, are offered for competition to student members of the Engineering Institute of Canada, for the best papers on subjects in any department of engineering. The summer theses prepared by students of this University are available for this competition.

Three prizes, each of the value of $25.00, and the President's gold medal, are offered for competition to student members of the Canadian Mining Institute for the best papers on mining subjects.

11. In the Department of Architecture two prizes will be offered at the opening of the session to those students of the Department submitting the best architectural drawings.

12. The sum of $40.00 has been voted by the Undergraduates' Society of the Faculty of Applied Science, to be given as prizes for the best papers read before the Society during the session 1920-21.

13. The Sir William Dawson Exhibition, given by the New York Graduates' Society:—value, $60.

14. Certificates of merit are given to such students as take the highest place in the sessional and degree examinations.

III.—Awarded at the Discretion of the Faculty.

1. The Hon. Robert Jones' Scholarship, having a value of One Hundred and Twenty-five Dollars ($125.00) per annum, "is granted from time to time to some poor student for the full term of study in the Faculty of Applied Science."

Application for this scholarship should be made through the Dean of the Faculty of Applied Science. In awarding the scholarship the standing of the student in the matriculation examination will be considered, and the scholarship will not be continued if the standing of the student at any time during his course proves to be unsatisfactory.

2. The Baylis Scholarship, founded in memory of Mr. and Mrs. James Baylis, of Montreal, and having an annual value of $100.00, is awarded to some student who is in need of financial assistance to

complete his course on entering the second year of the Faculty. The scholarship will be continued during the third and fourth years, if the student's standing continues to be satisfactory.

Applications should be made through the Dean of the Faculty of Applied Science.

3. Three research and teaching fellowships, of the value of $500 each, have been established in the Mining Department—one endowed in memory of the late Sir William Dawson, one endowed by the late Dr. James Douglas, and a third supported by graduates in Mining in the name of the late Dr. B. J. Harrington. All three fellowships are awarded annually if suitable candidates offer.

4. The late Dr. James Douglas, who was a member of the Board of Governors, provided during his lifetime for twelve, or more, tutorial bursaries in the Faculty of Applied Science. In assigning these bursaries account will be taken of the circumstances of the applicants as well as of their academic standing.

These bursaries have a value of $100.00 per annum, and carry the obligation of giving tutorial instruction equivalent to one evening a week, to the satisfaction of the Faculty Committee. Students in the third and fourth years of Applied Science only are eligible.

VI. MEDALS IN APPLIED SCIENCE.

1. The Governor-General's silver medal (the gift of His Excellency, the Duke of Devonshire) will be awarded for graduate research work.

2. A British Association medal is open for competition to students of the graduating class in each of the nine courses, and, if the examiners so recommend, will be awarded to the student taking the highest position in the final examinations. The British Association medals and exhibition were founded by the British Association for the Advancement of Science, in commemoration of the meeting held in Montreal in the year 1884.

3. A gold medal and three prizes of $25.00, offered by the Canadian Mining Institute. For further particulars, see page 244.

4. Honours.—On graduation, honours will be awarded for high standing in professional subjects.

VII. FELLOWSHIPS IN MEDICINE.

The A. A. Browne Memorial Fellowship:—From the proceeds of the sum of $10,000 which was received by the Faculty from the committee of the A. A. Browne Memorial Fund, a fellowship has been established, to be known as the "A. A. Browne Memorial Fellowship." This fellowship is open to graduates of any recognized Medical School and is for the advancement of medical science, special preference being given to the subjects of obstetrics and gynæcology.

The James Douglas Research Fellowship:—This fellowship, founded by the late Dr. James Douglas, with an endowment of $25,000, is awarded to promote co-ordinated research in the laboratories of pathology in or associated with the University.

SCHOLARSHIPS IN MEDICINE.

1. The P. S. Ross, Ottawa Valley, and Sidney J. Hodgson Scholarships. For particulars, see page 76.

2. The Walter J. Hoare Memorial Scholarship. Founded by Dr. Charles W. Hoare, a graduate of McGill University, in memory of his son, Walter J. Hoare, who was killed in the Great War.

It is limited to pupils of the Windsor Collegiate Institute, Ontario, is tenable only in the Faculty of Medicine of McGill University, and is awarded on the result of the June Matriculation Examination each year.

VIII. MEDALS IN MEDICINE.

1. The Holmes Gold Medal, founded by the Medical Faculty in the year 1865, as a memorial of the late Andrew Holmes, Esq., M.D., LL.D., late Dean of the Faculty of Medicine, is awarded to the student of the graduating class who receives the highest aggregate number of marks in the different branches comprised in the medical curriculum.

The student who gains the Holmes Medal has the option of exchanging it for a bronze medal and the money equivalent of the gold medal.

2. The Sutherland Gold Medal, founded in 1878 by the late Mrs. Sutherland, in memory of her late husband, William Sutherland, M.D., formerly Professor of Chemistry in this Faculty, is awarded for the best examination in general and medical chemistry, together with a creditable examination in the primary branches. The examination is held at the end of the third year.

3. The Wood Gold Medal, founded by Casey A. Wood, M.D., is awarded to the student of the graduating class who receives the highest aggregate number of marks in the clinical branches of the final year. The winner of the Holmes Medal and the winner of the Final Prize are not permitted to compete for this medal.

IX. PRIZES IN MEDICINE.

1. The Final Prize.—A prize in books (or a microscope of equivalent value), awarded for the best examination, written and oral, in the final branches. The Holmes' medalist is not permitted to compete for this prize.

2. The Fourth Year Prize.—A prize in books, awarded for the best examination, written and oral, in all the branches of the fourth year course.

3. The Joseph Hils Prize.—(Founded by the late Dr. Joseph Hils, of Woonsocket, R.I.)—A prize in books, awarded to the student who obtains the highest number of marks for a special examination in materia medica and therapeutics.

4. The Third Year Prize.—A prize in books, awarded for the best examination, written and oral, in the branches of the third year.

5. The Joseph Morley Drake, M.D., Prize.—(Founded by the late Joseph Morley Drake, M.D.)—A microscope, to be awarded to the student of the third year who obtains the highest number of marks for the examinations in pathology and bacteriology.

6. The Second Year Prize.—A prize in books for the best examination in all the branches of the second year course.

7. The First Year Prize.—A prize in books for the best examination in all the branches of the first year course.

X. EXHIBITIONS AND PRIZES IN LAW.

1. An exhibition, of the value of $50.00 per annum—to be known as the Alexander Morris Exhibition—has been founded in memory of the late Hon. Alexander Morris, M.A., D.C.L., of Toronto, Ont., and will be awarded to the student who obtains the highest standing in the second year.

2. Various money prizes (among the number being a prize of $15.00, given by the Junior Bar Association of the Province of Quebec, to the student of the final year who takes the highest standing in civil procedure), are awarded to the students of each year who obtain the highest distinction at the examination held at the close of the session. No prize will, however, be awarded to any student unless a sufficiently high standing is attained.

3. The Montreal Bar Prize, value $50.00, is awarded by the Montreal Bar Association for the highest standing in Commercial Law.

4. A travelling scholarship has been established by the Will of the late Sir William Macdonald, "for the purpose of enabling the English-speaking Law students to take a course of studies in France," the donor "deeming it of great importance that the English-speaking members of the legal profession should be proficient in the French language."

The value of this scholarship is the income derived from the sum of $20,000.

XI. MEDALS IN LAW.

1. The Elizabeth Torrance Gold Medal is awarded to the student who obtains the highest marks in the final examinations, provided that his answers are, in the estimation of the Faculty, of sufficient merit to entitle him to this distinction.

XII. MEDALS IN DENTISTRY.

The F. A. Stevenson Gold Medal, founded by Dr. F. A. Stevenson, of Montreal, is awarded to the student in the final year who stands first in the science and practice of Dentistry. The standing will be determined not only by the written and practical examinations at the end of the year, but by the general work of the student during the whole year.

XIII. PRIZES IN DENTISTRY.

Final Year Prize:—A prize in books will be awarded to the final year student who stands second in the class. The standing will be determined in a manner similar to that followed in the awarding of the gold medal.

Third Year Prizes:—Two prizes in books will be awarded to third year students in the science and practice of Dentistry. The method of determining the winners of these prizes will be similar to that adopted in awarding the prizes in the final year.

For medals and prizes in the Faculty of Agriculture, see Macdonald College announcement.

FEES.

GENERAL REGULATIONS.

1. Fees are due and payable to the Bursar on or before October 10th (if paid in instalments, one on or before October 10th, the other on or before February 1st.). The registration ticket must be shown to the Bursar at the time of the first payment. After October 10th or February 1st, as the case may be, an additional fee of $2.00 will be exacted of all students in default.

2. Immediately after October 20th, or February 5th (in the case of students who pay by instalments), the Bursar shall send to the Deans of the several Faculties a list of the registered students who have not paid their fees, on receipt of which the Deans shall cause their names to be struck from the registers of attendance, and such students cannot be readmitted to any class except on presentation of a special ticket, signed by the Bursar, certifying to the payment of fees.

3. Students registering after October 20th shall pay their fees at the time of registration, failing which they become subject to the provisions of regulation 2.

4. No fees will be refunded to partial students under any circumstances whatever.

MATRICULATION EXAMINATION FEES.

See page 48.

FEES IN ARTS.

(For Regulations re payment, see above.)

Sessional fee for the undergraduate course in Arts..... (This includes fees for library, gymnasium and graduation.)	$100.00
By instalments:—	
First instalment, if paid before October 10th.....	$51.00
Second instalment, if paid before February 1st.....	51.00

Sessional fee for the undergraduate course in School of Commerce	$150.00
By instalments:—	
First instalment, if paid before October 10th	$ 77.00
Second instalment, if paid before February 1st	77.00

At the request of the students themselves and by the authority of Corporation, an additional fee of $10.00 will be exacted from all men undergraduates and conditioned undergraduates, for the support of the Literary Society, the Undergraduates' Society, the Canadian Club, the Union, the McGill Daily and athletics. Women students pay an additional fee of $3.00 for athletics, and $2.50 for the Royal Victoria College Undergraduates' Society.

Fees for Laboratory Courses.

Fees for supplies, as detailed below, will include all laboratory materials, reagents, and the use of instruments, and will cover ordinary wear and tear of instruments and apparatus, but they will not cover losses through waste, neglect, or breakage. The charges under this head will be deducted from the students' caution money at the end of the session.

General Chemistry (1)	$5.00
Organic Chemistry (2)	5.00
Analytical Chemistry (3)	10.00
Organic Chemistry, advanced (5)	15.00
Physical Chemistry, advanced (7)	10.00
Quantitative Analysis, advanced (8)	10.00
Biological Chemistry (10)	5.00
Biological Chemistry, advanced (11)	5.00
Food Chemistry Laboratory	10.00
Physics (per session)	5.00
Botany (for sessional courses)	5.00
Botany (for term courses)	2.50
Zoology (for sessional courses)	5.00
Zoology (for term courses)	2.50

Fees for partial students—(first and second years).

$25.00 per session for one course† and $15.00 for one half-course† of lectures, including the use of the library; $18.00 per session for each

† The lectures and laboratory work, if any, in one subject in any of the four college years constitute a "course," if occupying three hours per week; a "half-course," if occupying less than three hours per week.

additional course; $12.00 per session for each additional half-course. In addition there will be a fee of $3.00 for athletics.

Fees for partial students—(third and fourth years).—$30.00 per session for one course† and $18.00 for one half-course† of lectures, including the use of the library; $24.00 per session for each additional course; $15.00 per session for each additional half-course. In addition there will be a fee of $3.00 for athletics.

Partial students taking the full curriculum in any one year pay the same fees as undergraduates in that year.

For fees payable by students taking the double course in Arts and Applied Science, see page 98; and for the fees payable by those in the double course in Arts and Medicine, see page 99.

Graduates in Arts of this University are allowed, on payment of one-half of the usual fees, to attend all lectures in the undergraduate course, except those for which a special fee is exigible. Graduates of other universities attending full courses in affiliated theological colleges are given the like privilege.

For fees for Extension Courses, given in connection with the School of Commerce, see pages 169 to 174.

Special fees:—

Supplemental examination, taken at the regular date fixed by the Faculty	$ 2.00
Supplemental examination, when granted at any other time than the regular date fixed by the Faculty, for each examination period	$ 5.00

All fees for supplemental examinations must be paid to the Bursar, and the receipts shown to the Dean before the examination.

Fee for the degree of B.A. or B.Sc. (Arts) conferred in absentia (except when the candidate has been specially exempted by the Faculty	$20.00

Caution Money.—Every student is required to deposit with the Bursar the sum of $5.00, as caution money, to cover damages done to furniture, apparatus, books, etc. This amount, less deductions (if any), will be returned at the close of the session.

FEES IN APPLIED SCIENCE.

(*For Regulations re payment, see page* 95.)

Sessional fee for the undergraduate course..... $205.00

By instalments:—

First instalment, if paid before October 10th..... $105.00
Second instalment, if paid before February 1st..... 105.00

Students taking the summer schools in September are required to pay the sum of $35 (including Caution Money Deposit), which will be placed to their credit on the fee for the session.

At the request of the students themselves, and by authority of Corporation, an additional fee of $10.00 will be exacted from all undergraduates and conditioned undergraduates for the support of the Literary Society, the Undergraduates' Society, the Canadian Club, the Union, the McGill Daily and athletics.

Graduates of this Faculty taking an additional undergraduate course will pay one-half of the undergraduate fee.

Students taking the six-year double course in Arts and Applied Science shall pay full fees in Arts for the first three years of their course and the following fees in Applied Science:—

Sessional fee for second and third years of double course (including the summer school)..... $ 50.00
Sessional fee for fourth, fifth and sixth years of double course 205.00

By instalments:—

First instalment, if paid before October 10th..... $105.00
Second instalment, if paid before February 1st..... 105.00

The fees for partial students are:—$4.00 for library, $3.00 for athletics, $1.00 for the Undergraduates' Society, and a fee at the rate of $7.00 for an hour a week of instruction during the academic year, but the maximum fee shall in no case exceed the full undergraduate fee.

Caution Money.—Every student is required to deposit with the Bursar the sum of $10.00, as caution money, to cover damage done to furniture, apparatus, books, etc. This amount, less deductions (if any), will be returned at the close of the session.

Fee for the degree of B.Sc., conferred in absentia (except when the candidate has been specially exempted by the Faculty) ..... $ 20.00

For a regular supplemental examination, the fee is $2.00, for a special supplemental examination $5.00. These fees must be paid to the Bursar of the University and receipt for the same shown to the Examination Committee not later than the day before the examination.

FEES IN MEDICINE.

(*For Regulations re payment, see page 95.*)

Sessional fee for the undergraduate course	$200.00
By instalments:—	
First instalment, if paid before October 10th	$102.00
Second instalment, if paid before February 1st	102.00
Fee for athletics, Union, etc.*	10.00
Caution money (deposit)†	10.00
	$220.00
Graduation fee for the degree of M.D., C.M.‡	$ 30.00

Double course students in Arts and Medicine, qualifying for the degrees B.A. or B.Sc. and M.D., shall pay full fees in Arts for two years and in Medicine for six. They shall also pay $30.00 as a graduation fee in the Faculty of Arts, as well as in Medicine.

Sessional fee for students repeating a session	$100.00
Repeating students must also pay $10.00 for athletics, etc., and make the usual caution money deposit of $10.00.	
Fee for students from other colleges who have paid full fees there for courses to be taken	$100.00

These students are also required to pay in addition, $10.00 for athletics, etc.,* the hospital fees exacted in the year to which they are admitted, and to make the usual caution money deposit of $10.00.

An *ad eundem* fee of $10.00 will be charged students entering from another university in any year above the first.

Partial students will be admitted on payment of special fees.

Fee for a supplemental examination	$ 5.00
Fee for the course in Public Health and diploma	100.00

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* At the request of the students themselves and by authority of Corporation, this additional fee of $10.00 is exacted from all men undergraduates and conditioned undergraduates for the support of the Literary Society, the Undergraduates' Society, the Canadian Club, the Union, the McGill Daily, and athletics.

† The caution money deposit is intended to cover breakages in the different laboratories, etc. The amount of the deposit, less deductions (if any), will be returned at the close of the session.

‡ When the degree is conferred in absentia an additional fee of twenty dollars will be exacted, unless the candidate has been specially exempted by the Faculty.

FEES IN DENTISTRY.

Students in Dentistry pay the following fees:—

Sessional fee	$200.00
By instalments:—	
First instalment, if paid on or before October 10th	$102.00
Second instalment, if paid on or before February 1st	102.00
Fee for athletics, the Union, etc.*	10.00
Caution money deposit†	10.00
	$220.00
Graduation fee for the degree of D.D.S.‡	$ 30.00

FEES IN PHARMACY.

Registration fee	$ 5.00
Fee for athletics	3.00
Course in Junior Chemistry	25.00
Course in Senior Chemistry	25.00
Course in Junior Materia Medica and Pharmacy	25.00
Course in Senior Materia Medica and Pharmacy	25.00
Course in Practical Pharmacy	25.00
Course in Analytical Chemistry	30.00
Course in Botany	20.00
Graduate Diploma	15.00
Supplemental Examination, each subject	5.00

Certain fees are payable to the Pharmaceutical Association of the Province of Quebec for registration, examinations, and for the licentiate in pharmacy (see announcement of Department of Pharmacy).

The fee of $10.00 for the Union, McGill Daily, etc., etc., is optional for students in Pharmacy, but they are required to pay the athletics fee of three dollars.

The sum of $5.00 is collected from all students of Pharmacy at the time of registration as "caution money," to cover breakages in the laboratories or lecture rooms. The balance will be refunded at the end of the session.

The University supplies all reagents and apparatus in the various laboratories. Charge is made for breakages only.

Partial students will be admitted to one or more courses on payment of special fees.

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* See foot note on preceding page.
† See foot note on preceding page.
‡ See foot note on preceding page.

FEES IN LAW.

(*For Regulations re payment, see page 95.*)

Sessional fee for Courses A and C for the B.C.L. degree...	$150.00
By instalments:—	
First instalment, if paid on or before October 10th.....	$ 77.00
Second instalment, if paid on or before February 1st.....	77.00
Sessional fee for the LL.B. Course, and Course B for the B.C.L. Degree	100.00
By instalments:—	
First instalment, if paid on or before October 10th.....	$ 51.00
Second instalment, if paid on or before February 1st.....	51.00
Fee for athletics, the Union, etc.*.....	10.00
Graduation fee‡	12.50
Fee for a Regular Supplemental Examination.....	5.00

Students taking the course leading to the degree of LL.B. shall pay full fees in Arts for the first two years and full fees in Law for the third and fourth years.

Fees for partial students:—	
Registration fee	$ 5.00
For course in Roman Law.....	40.00
For each of the following courses: successions, criminal law, commercial law, obligations, civil procedure.....	30.00
For each of the shorter courses.....	20.00
Athletics fee	3.00

Caution Money.—Every student is required to deposit with the Bursar the sum of $5.00, as caution money, to cover damage done to furniture, loss of books, etc. This amount, less deductions (if any), will be returned at the close of the session.

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* At the request of the students themselves and by authority of Corporation, this additional fee of $10.00 is exacted from all men undergraduates and conditioned undergraduates for the support of the Literary Society, the Undergraduates' Society, the Canadian Club, the Union, the McGill Daily, and athletics.

‡ When the degree is conferred in absentia an additional fee of twenty dollars will be exacted, unless the candidate has been specially exempted by the Faculty.

FEES IN THE GRADUATE SCHOOL.

For the resident course leading to the degree of M.A., M.Sc. or LL.M.	$40.00
Registration fee for the non-resident courses for M.A. or M.Sc.	15.00
Annual registration fee thereafter for these courses	5.00
For each year of the course leading to the degree of Ph.D.	40.00
Graduation fee for M.A., M.Sc., or LL.M.	20.00
" " " (*In absentia*)	40.00
" " Ph.D.	30.00
Fee for the degree of D.Sc.	80.00
" " " D.Litt.	80.00
" " " D.C.L.	80.00

The examination and graduation fee is payable when the candidate presents himself for examination and is not returnable if he is unsuccessful. No thesis can be accepted unless it is accompanied by a receipt from the Bursar for this fee. If, however, a candidate for the degree of M.A. or M.Sc. fails, he may present himself in a subsequent year without further payment of fees. A candidate for the degree of Ph.D., D.Sc. or D.Litt., in case of failure, may present himself in a subsequent year upon payment of an additional sum amounting to one-half of the usual fee for this degree.

Lecturers, tutors and demonstrators in the University who are proceeding to the degree of Master of Arts, Master of Science, or Doctor of Philosophy, shall, so long as they remain members of the teaching staff, be exempt from the tuition fee, but will be required to pay the fee for graduation in every case. In the event of their leaving the staff after one year of the course, they are required to pay a tuition fee of $20.00 in the M.A. or M.Sc. course and the prescribed fee in the Ph.D. course.

No fee shall be charged for the degree of LL.D., granted *honoris causa.*

FEES IN MUSIC.

Regular students, per session.	$175.00
(This sum will also cover the fees for the diploma or degree examination at the end of each year.)	
Senior partial students, per term of 11 weeks.	$ 40.00
Junior partial students, per term of 11 weeks.	33.00
Examination and graduation fees for Mus. Bac., when the course is taken extra-murally; for each examination (first, second or third)	20.00
For the diploma	20.00
Examination and graduation fee for Mus. Doc.	100.00

The fee for the degree of Mus. Doc. is payable in two instalments. Fifty dollars must be paid when the candidate submits his exercise. If the exercise is not approved, he may in a subsequent year submit another exercise upon payment of $25.00. The second instalment of $50.00 must be paid before the subsequent examination. If the candidate be unsuccessful, he may in a subsequent year present himself again for examination upon payment of $25.00.

Information regarding fees to be paid by students for class work and by occasional students, as well as regarding fee for certificates and examinations, when these are not covered by the regular fee, will be found in the special syllabus issued by the Conservatorium of Music.

FEES IN THE SOCIAL SERVICE DEPARTMENT.

For Diploma students	$ 70.00
Partial Students:—	
For a single sessional course	7.50
For a single term course	5.00
For course No. 7	10.00
For the Extension Course	5.00

FEES IN THE DEPARTMENT OF PHYSICAL EDUCATION.

Gymnasium for partial students (optional)	$ 5.00

SCHOOL OF PHYSICAL EDUCATION.

Educational Course, per session	$150.00
Massage and Remedial Course, per session	150.00
By instalments:—	
First instalment, if paid on or before October 10th	$ 62.00
Second instalment, if paid on or before February 1st	92.00

MISCELLANEOUS FEES.

Certificate of standing (general)	$ 1.00
Certificate of standing, accompanied by a statement of classification in the several subjects of examination	2.00

All applications for certificates must be addressed to the Registrar of the University, accompanied by the required fee.

No certificates are given for attendance on lectures unless the corresponding examinations have been passed.

MORALS AND DISCIPLINE.

1. University discipline shall be exercised by the several Faculties, and by the Committee on Morals and Discipline, subject in the cases hereinafter mentioned to revision or confirmation by Corporation.

2. Subject to the provisions of the following sections, each Faculty shall be entitled to exercise University discipline over its own students.

3. All cases of discipline involving the interests of more than one Faculty, or of the University in general, shall be dealt with by a standing committee of Corporation, to be known as the Committee on Morals and Discipline, which shall consist of the Vice-Principal, the Deans of the several Faculties, one member of the Board of Governors and another member of Corporation who must be outside of the University staff. The two members last named shall be appointed annually at the regular meeting of the Corporation in February. The Committee shall have power to add to their number the President and Vice-President of the Students' Council in cases in which that body has taken action and made a report.

4. All such cases of discipline as are referred to in sub-section 3 shall be reported to the Principal, or, in his absence, to the Vice-Principal, or, in the absence of both, to the senior Dean present in the city. If the Principal, or, as the case may be, the Vice-Principal or the Dean, deems action necessary the matter shall be reported to the Committee on Morals and Discipline. Corporation shall also have the power to report such matters to the said Committee.

5. When sentence of expulsion, or of suspension for more than three months, has been pronounced or recommended by a Faculty, or by the Committee on Morals and Discipline, the Corporation may entertain an appeal, which shall be final.

6. "University discipline" shall mean any appropriate method of exercising authority over students, and shall, but without prejudice to the foregoing generality, include the power of expulsion, suspension, disqualifying from competing for scholarships, exhibitions, medals, prizes or honours, imposing fines, not exceeding $25.00, on any student, levying assessments for damage done, reporting to parents or guardians and admonition.

7. Any student found guilty of immoral, dishonest, disorderly or improper conduct, or of wrongfully causing damage to person or property, shall be liable to University discipline.

The following resolution should be noted here: "The Corporation of the University viewing with marked disfavour the organized kidnapping or other proceedings of a violent and objectionable character practised by the students of the First and Second Years at the beginning of the Session, hereby requires the student body to discontinue such practices under severe penalties."

8. If on an occasion of general disorder on the part of a year, class, or group of students, damage be done to University property, or acts committed meriting discipline, and the individuals who have done such damage, or committed such acts, have not been discovered, an assessment to cover the damage may be laid, or a fine imposed, or both, on all the members of such year, class or group.

9. While in College, or in the college grounds, students shall conduct themselves in the same orderly manner as in the class-rooms. Smoking is prohibited in the college buildings, except in such rooms, if any, as may be set apart for that purpose. Any professor observing improper conduct on the part of the student in the college buildings or grounds may admonish him, and, if necessary, report him to the Dean of the Faculty in which he is enrolled. Without as well as within the walls of the college, every student is required to maintain a good moral character.

COLLEGE GROUNDS AND ATHLETICS.

1. The management of the college grounds and of out-door athletics and sports is under the control of the Committee on Physical Education. This Committee is responsible for the general maintenance of all University grounds, and retains the ultimate authority and power of supervision in all matters affecting athletics in the University. All matters which may in any way affect athletics must be referred to this Committee, and its approval must be obtained before any departure is made from the authorized routine.

All students entering the University for the first time and all others desirous of taking part in football matches, or otherwise engaging in violent athletic contests, must pass a medical examination to be held under the direction of the Director of Physical Education during the month of October. A complete record of all such examinations shall be kept by the Director or some other officer appointed to this duty. The managers and captains of clubs, or other responsible executive officers, are required to insist upon the strict observance of the rule in regard to medical examination, and all the rules and regulations of the Committee which concern them.

All clubs must submit their regulations, rules, and by-laws, and any changes in the same, for the approval of the Committee. They must make application for the use of such portions of the grounds as they require, and for any special privileges.

Clubs must not engage in matches with outside clubs, except with the approval of the Committee.

During the session, and including the Christmas holidays, all teams and individual students desiring to participate in outside athletics* must first obtain a sanction from the Athletic Association, such sanction to be approved by the Committee on Physical Education.

Students who participate in outside athletics without having received such sanction may be suspended from the University by the Committee on Physical Education, if the consent of the Principal has been given, until Corporation shall meet to deal with the matter.

The Athletic Association must submit its programme for each year for the approval of the Committee.

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* Outside athletics is interpreted to mean those athletics over which the Athletic Association of the University or the Canadian Intercollegiate Athletic Union does not have control.

All students in good standing who are taking a course of study held to be sufficient by a special committee of the Faculty in which they are enrolled will be allowed to take part in athletics, subject, however, to the general regulation regarding medical examination.

Suspension from lectures for any cause, or absence from more than one-eighth of the total number of lectures given in any course, as shown by the monthly reports furnished to the Dean of each Faculty by the several professors and lecturers, shall be considered as sufficient ground to disqualify a student from engaging in athletic contests.

All students of the University are required to pay a fee of three dollars ($3.00) for the use of the grounds (this is included in the general fee of $10.00 paid by undergraduates). The amount so paid is handed over to the Executive of the Students' Council, and is by this body expended in the interest of college athletics, under the general direction of the Committee on Physical Education.

The amount derived as grounds and athletics fees from the students of the Royal Victoria College is placed at the disposal of the Committee in charge of the grounds, for expenditure in the interests of women-students.

The annual sports of the University are held on the third Friday of October in each year. The day is observed as a holiday.

Such persons as are entitled to use the grounds shall be provided with tickets, renewable each year. Those entitled to tickets are the members of the University and prominent benefactors, and the families of Governors and Professors.

UNIVERSITY ATHLETIC ASSOCIATION.

All matters connected with athletics at the University are under the immediate supervision of the University Athletic Association, which in turn is responsible to the "Committee on Physical Education." The executive of the Athletic Association consists of the presidents of the various clubs of the Association, twelve in number.

The Track Club is entrusted with the regulation and encouragement of "track and field athletics"; the management of the Interclass sports and of the annual University sports.

The Rugby Football Club is represented by a senior and intermediate team in the Intercollegiate Union, and a junior team in the O.R.F.U. In addition to these championship matches, a series of inter-class matches is played annually for the "Wood Cup."

The Hockey and Skating Club is represented by a Senior Team in the Intercollegiate and City League and by Intermediate and Junior Teams in the City League. A series of Inter-class games is played annually for the "Capper-Porter Trophy."

The Basketball Club is represented by the Senior Teams in the Intercollegiate and City Leagues and by Intermediate and Junior Teams in the City League. A series of Inter-class games is played annually.

The Boxing, Wrestling and Fencing Club, in addition to holding an annual "Assault at Arms," is represented in the Intercollegiate competition.

The remaining clubs, most of which are represented in Intercollegiate Unions, are: Harriers, Association Football, English Rugby, Ski-ing, Gymnastics, Tennis, Swimming and Water Polo.

PHYSICAL EDUCATION.

For particulars, see page 291.

ACADEMIC DRESS.

Professors, lecturers and students are required to wear academic dress at lectures, except in those cases in which a dispensation shall have been granted by the Faculty.

Undergraduates shall wear a plain black stuff gown, not falling below the knee, with round sleeve cut above elbow.

Bachelor of Arts.—Black stuff gown, falling below knee, with full sleeve cut to elbow and terminating in a point (similar to that of the Cambridge B.A.); hood, black silk, lined with pale blue silk and edged with white fur.

Bachelor of Science.—The same gown as Bachelors of Arts; hood, black silk, lined with yellow silk and edged with white fur.

Bachelor of Science in Agriculture.—The same gown as Bachelors of Arts; hood, black silk, lined with dark green silk and edged with white fur.

Bachelors of Civil Law.—The same gown as Bachelors of Arts; hood, black silk, lined with French grey silk and edged with white fur.

Bachelor of Laws.—The same gown as Bachelors of Arts; hood, black silk, lined with scarlet silk and edged with white fur.

Bachelor of Architecture.—The same gown as Bachelors of Arts; hood, black silk, lined with white silk and edged with white fur.

Bachelor of Music.—The same gown as Bachelors of Arts; hood, black silk, lined with pale mauve silk and edged with white fur.

Master of Arts.—Black gown of stuff or silk, falling below knee, with long sleeve with semi-circular cut at the bottom (similar to that of the Cambridge M.A.); hood, black silk, lined with pale blue silk.

Master of Science.—The same gown as Master of Arts; hood, black silk, lined with yellow silk.

Master of Laws.—The same gown as Masters of Arts; hood, black silk, lined with scarlet silk.

Doctor of Medicine.—The same gown as Masters of Arts; hood, scarlet cloth, lined with dark blue silk.

Doctor of Dental Surgery.—The same gown as Masters of Arts; hood, scarlet cloth, lined with pink silk.

Doctor of Laws.—The same gown as Masters of Arts; hood, scarlet cloth, lined with white silk.

Doctor of Literature.—The same gown as Masters of Arts; hood, scarlet cloth, lined with pale blue silk.

Doctor of Science.—The same gown as Masters of Arts; hood, scarlet cloth, lined with yellow silk.

Doctor of Civil Law.—The same gown as Masters of Arts; hood, scarlet cloth, lined with French grey silk.

Doctor of Music.—The same gown as Masters of Arts; hood, scarlet cloth, lined with pale mauve silk.

Doctor of Philosophy.—The same gown as Masters of Arts; hood, scarlet cloth, lined with pale green silk.

Doctors of Laws, Doctors of Civil Law, Doctors of Literature, Doctors of Science, Doctors of Philosophy and Doctors of Music shall be entitled to wear for full dress a robe of scarlet cloth (similar in pattern to that of the Cambridge LL.D.), faced with silk of the same colour as the lining of their respective hoods.

All hoods shall be in pattern similar to that of the masters of Arts of Cambridge University.

Undergraduates and graduates shall wear the ordinary black trencher with black tassel, but Doctors of Laws, Doctors of Civil Law, Doctors of Literature, Doctors of Science, Doctors of Philosophy and Doctors of Music shall wear for full dress, a black velvet hat with gold cord, similar to that worn by Doctors of Laws of Cambridge University.

Samples of the colours of the linings of all hoods shall be kept for inspection in the office of the Registrar.

For the information of graduates in Great Britain it may be stated that the gowns and hoods for the various degrees specified above can be purchased from Messrs. Ede, Son & Ravencroft, 93 and 94 Chancery Lane, London, W.C. 2.

FACULTY OF ARTS.

COURSES FOR THE DEGREE OF B.A.

Students may enter the Undergraduate Course by passing either the Junior or the Senior Matriculation Examination. In the former case, in order to obtain the degree of B.A. or B.Sc., they are required to attend regularly the prescribed courses of lectures for four years; in the latter, for three. No course or courses can be counted towards a degree or diploma in the Faculty of Arts except such as have been taken and passed after matriculation requirements have been satisfied and according to the regulations governing the various years of the Undergraduate Course. Undergraduates are arranged in years, from first to fourth, according to their academic standing. The respective conditions of passing into the last three years of the course are stated on page 121.

An undergraduate may proceed to the degree of B.A. by taking either the Ordinary Course or some one of the Honour Courses prescribed.

I. ORDINARY COURSE FOR THE DEGREE OF B.A.

First Year.

Greek 1 *or* **2,** *or* **Latin 1.**
English 1 and 2.
History 1.
Mathematics 1 *or* **2.**
Latin 1, *or* **Greek 1** *or* **2,** *or* **French 1,** *or* **German 1 (a)** *or* **2.**
Physics 1.

Details of the work in each subject are given on pages 125 to 152.

French cannot be taken as a qualifying option in the first year, except by students who have passed the matriculation examination in that subject, or, failing this, are able to satisfy the Head of the Department that they are qualified to proceed with the course.

German may be taken instead of trigonometry, in addition to two other foreign languages, by students who intend to read for honours in modern languages or English. Greek may be taken instead of trigonometry, in addition to two other foreign languages, by students who intend to read for classical honours, or by those who intend to study theology. This option will, however, be granted only on the recommendation of the departments concerned.

Application to take additional courses must be made to the Dean at the beginning of the session.

Advanced Courses.—A student qualified to take work of a more advanced character than the ordinary course of the first year

in any subject, shall, with the consent of the B.A. Advisory Committee, take such advanced work in that subject as the department concerned may recommend. Students taking advanced courses may be excused from the corresponding ordinary courses on the recommendation of the department.

Commercial Course.—An outline of the first year course for the degree of Bachelor of Commerce will be found on page 160.

Second Year.

Compulsory.

English 3.
Greek 3 *or* **4.** } any one.
Latin 2. }

Optional Courses.

From the following subjects any three, or three and a half, in wholes or halves must be selected. Two and a half courses must be taken from Group II in order to qualify for the B.A. degree, but not more than two full courses can be selected from this Group in the Second Year. The subjects of Group II are not compulsory for students intending to take honours in the Third and Fourth Years. The asterisk denotes a half course.

GROUP I.		*GROUP II.*	
COURSES	PREREQUISITES	COURSES.	PREREQUISITE
Economics *1		**Botany *2**	
English 4	**1** *and* **2**	**Chemistry 1**	
French 3	**1**	**Geology 1**	
German 4	**1** *or* **2**	**Physics 2**	**1**
Greek 3 *or* **4**	**1** *or* **2**	**Zoology** *2	
History *2	**1**	**Zoology** *6	**2**
Latin 2	**1**		
Mathematics 3	**1**		
Philosophy *1 any			
Philosophy *2 any two			
Philosophy *3 any			
Semitic Languages 2			

An exemption from any one of the subjects specified above, except English composition, may be granted to honour students in mathematics who take both the ordinary and the advanced course in mathematics, but to no others.

Commercial Course.—An outline of the second year course for the degree of Bachelor of Commerce will be found on page 160.

Third and Fourth Years.

Four courses are to be selected in each year. Of the eight, six must be chosen from Group I, and of these six, five must be chosen in one department, or from courses which are indicated as allied to that department, but not less than three and not more than four courses can be taken in any one department and not more than three courses in any one department in the same year. In the whole B. A. course, at least two and a half courses are to be taken from Group II. No course can be selected unless the prerequisite courses, if any, have already been taken. An asterisk denotes a half course.

GROUP I.

Department.	Courses Offered.	Prerequisites.	Allied Courses.
Classics	Latin 4, 6 Greek 6, 8	Latin 2 Greek 3 or 4	Any one full course in any other department of Group I.
Economics and Political Science	*1 2 3 *4, *5, *6, *7, *8, *9, *10, *11, *12	 *1 1 or 2	English Literature, but not more than one full course; History, but not more than one full course.
Education	*1, *2		
English	4, *5, *6, *7, *13, *15, *19, *14 *9, *10, *11, *12, *16, *20	3 *13 *5, *6, *7, any *15, *19 two.	Any ancient or modern language, but not more than two full courses; History, but not more than one full course. Philosophy or Economics and Political Science, but not more than one full course.
History	*2, *5, *7, 9	1	Economics and Political Science, but not more than one full course; English, but not more than one full course.

GROUP I.—Continued

Department.	Courses Offered.	Prerequisites.	Allied Courses.
Mathematics	3	1 *or* 2	Any two full courses in any department of Group I.
	4, *6, (*5 and 12), 7	3	
		4	
Modern Languages	French 6,7,8,9, German 5,6,7,8	French 3	Any language or languages, Philosophy, or History, but not more than two full courses.
		German 4	
Philosophy	*1, *2, *3, *4		Classics, Modern Languages, Education, Economics and Political Science, but not more than two full courses.
	*5	4	
	*6	*1, *2, *3 any two.	
	7, 8, 9, 11, *12, *10	*1 and *2	
		7	
	*13	*1, *2, *3 any two.	
		and 4	
Semitic Languages	3, *4, *5	2	Classics, History, Philosophy, but not more than two full courses.
	6, 7	3, (*4, *5)	

GROUP II.

(Science Subjects.)

Department.	Courses Offered.	Prerequisite.
Biology	Botany *2	
	4, *5	*2
	7	4
	Zoology *2	
	3, *6	*2
	5	3
Chemistry	1	
	2	1
	3	2
Geology	1	
	*2, (*3 and 4)	1
Physics	2	1
	3	2
	9	3

GROUP III.

(Subjects taught in other Faculties.)

FACULTY.	COURSES OFFERED.	PREREQUISITE.
Law	**Jurisprudence**	
	Roman Law	

No selection of courses can be made that conflicts with the time-table (see page 153).

Every undergraduate shall, on entering the Third Year, register in the Office of the Dean a statement of the work he intends to take during the remainder of his undergraduate course. Subsequent changes can be made only with the approval of the Dean.

Details of the work in each subject are given on pages 125 to 152.

For regulations whereby the double course in Arts and Applied Science can be taken in six years or Arts and Medicine in eight, see pages 122 and 123.

Commercial Course.—An outline of the Third Year Course for the degree of Bachelor of Commerce will be found on page 161.

SUMMER READINGS.

(*For students entering the Second, Third and Fourth Years.*)

Summer readings are obligatory for every undergraduate and conditioned undergraduate in the Faculty, except in the case of candidates who read and compete for scholarships and exhibitions in September.

The readings prescribed for the session 1920-21 are posted on the notice boards of the Arts Building and the Royal Victoria College.

The summer readings for honour students are left in the hands of the departments concerned.

Students will be required at the beginning of the session (Saturday, October 2nd, a.m.) to pass an oral examination in each of the books selected by them.

Students who fail to do this must, before the end of the first term, take a written examination; failure to pass this examination involves the same penalties as failure in one subject in the sessional examinations.

II. HONOUR COURSES FOR THE DEGREE OF B.A.

Honours of the first, second or third class will be awarded in any of the following Honour courses:—

Biology.
Chemistry.
Chemistry and Biology.
Classics.
Economics and Political Science.
English.
English and French.
English and German.
English and Philosophy.
Geology and Mineralogy.
Greek and English.
Greek and Hebrew.
History.
History and English.
Latin and English.
Latin and French.
Latin and German.
Mathematics and Physics.
Modern Languages.
Philosophy and German.
Philosophy and Psychology.
Semitic Languages.

Honour lectures are open to candidates for the ordinary degree in the third and fourth years, on the recommendation of the department concerned and with the approval of the Dean.

No student is allowed to take more than one Honour course.

A student who has failed to obtain honours in the third year may, on the recommendation of the department, be permitted to enter the ordinary course of the fourth year.

COURSES FOR THE DEGREE OF B.Sc. (Arts).

An undergraduate may proceed to the degree of B.Sc. (Arts) by taking either one of the two Ordinary Courses or an Honour Course.

I. ORDINARY COURSE.

There are two Ordinary Courses, designated respectively A and B.

Ordinary Course A.

This course has been arranged to give students a thorough training in science as a preliminary to entering a technical business or profession, or for teaching.

First Year.

Chemistry 1.
English 1 and 2.
French 2.
German 1 (b) *or* **3.**
Mathematics 1.
Physics 1.

Special arrangements will be made for students who have passed the matriculation examination in German.

Details of the work in each subject are given on pages 125 to 152.

SELECTION OF COURSES.

Second Year.—In addition to English Composition, which is compulsory, three subjects must be chosen, of which two must be selected from Group I below; the third subject may be taken from Group I or Group II. *Third and Fourth Years.*—The three subjects selected in the second year must be continued in the third and fourth years. If biology, however, which consists of a half-course in botany and a half-course in zoology, is chosen in the second year, it may be followed in the third and fourth years by a full course in each of those subjects, in which case one of the sciences chosen in the second year need not be continued.

GROUP I.

SUBJECTS.	SECOND YEAR.	THIRD YEAR.	FOURTH YEAR.
Biology	Zoology 2. Botany 2.	Zoology 3, *or* 5; *or* Botany 7.	Botany 7; *or* Zoology 3 *or* 5.
Chemistry.	2 *or* 3; and 4.	2 *or* 3 and 9.	5 *or* 6; and 8.
Geology.	1.	5 and 6.	2, 3, 4.
Mathematics.	3.	4 and 5.	7.
Physics.	2 *or* 3.	2 *or* 3 and one of 4 *or* 5 *or* 12.	4, 5, 6, 11, 12, (7 and 10), (10 and 13).

GROUP II.

SUBJECTS.	SECOND YEAR.	THIRD YEAR.	FOURTH YEAR.
Economics and Political Science.	2 *or* 3.	Any two of:—Economics and Political Science 4 to 12.	Any two of Economics and Political Science, 4 to 12, not chosen in the third year.
English	3 and 4.	Any two of: 5, 6, 7, 15, 19.	Any two, not taken in the third year, of 5, 6, 7, 9, 10, 11, 12, 15, 19.
History.	9; *or* 5 and 7.	9; *or* 5 and 7 (whichever has not been taken in the second year).	9.
Philosophy.	Any two of:—1, 2, 3.	4 *or* 7 *or* 11 *or* any two of:—6, 8, 12, 13, 14.	4 *or* 7 *or* 11 (whichever has not been taken in the third year) *or* 9 or any two of:—5, 6, 8, 10, 12, 13, 14 (if not already taken)

Students who so desire may on application be permitted to substitute Education in either the third or fourth year for one course in Group II.

Students selecting Physics, as one of the three subjects of the ordinary B.Sc. course, must also elect Mathematics.

Ordinary Course B.

DOUBLE COURSE B.Sc., M.D.

This course in the physical and biological sciences is especially devised for students who might wish to proceed to a degree in Medicine or to advanced work in physiology, biological chemistry, pharmacology or allied subjects. Students intending to enter the Faculty of Medicine must pass the matriculation examination in Latin before admission to the third year of the B.Sc. course.

Graduates in this course are qualified to enter the third year in the Faculty of Medicine.

First Year.

English 1 and 2.
German 1 (b) *or* 3.
Mathematics 1.
Physics 1.
Chemistry 1.
French 2.

Second Year.

English Composition 3.
Physics 2 and 3.
Biology (Botany 1, Zoology 1).
Chemistry 3.

Third Year.

Chemistry 2 and 4.
Zoology 5.
Anatomy (as in first year Medicine).

Fourth Year.

Chemistry 7 and 10.
Anatomy (as in second year Medicine or Special Advanced Biology).
Physiology (as in second year Medicine).

II. HONOUR COURSE FOR THE DEGREE OF B.SC.

Students proposing to take an Honour Course must select one principal subject from Group 1 (page 117), in which subject they must have obtained at least high Second Class standing in the First Year;

if the subject chosen for honours is not offered in the First Year, an aggregate standing of high second class must be obtained in all subjects of the First Year.

Students who fail to retain their honour standing, will be required either to repeat the year in honours or to proceed to the following year, reverting to the ordinary course, in which case they must take the ordinary work of the honour subject, together with two of the following subjects:—Mathematics, Physics, Chemistry.

The exact courses of study will be specified by the department concerned. All students will be required to take a course in German 3, and English 3.

B.Sc. IN AGRICULTURE.

Particulars regarding the course for the degree of Bachelor of Science in Agriculture, the first two years of which are taken in the Faculty of Arts, are given in the Macdonald College Announcement.

DEGREE OF BACHELOR OF HOUSEHOLD SCIENCE (B.H.S.).

The first two years are to be taken in the Faculty of Arts, McGill University, and the last two in the School of Household Science, Macdonald College.

Proposed subjects to be taken in the Faculty of Arts, which may be either in the B.A. or the B.Sc. Course.

First Year (B.A. Course).

Greek 1 *or* 2, *or* **Latin** 1.
English 1 **and** 2.
History 1.
Mathematics 1 *or* 2.
Latin 1, *or* **Greek** 1 *or* 2, *or* **French** 1, *or* **German** 1 (a) *or* 2.
Physics 1.
French is strongly recommended as the alternative language.

Second Year (B.A. Course).

English 3. } Compulsory.
Latin 2 *or* **Greek** 3 *or* 4. }

For the remaining three, or three and a half courses, the following are required:

Botany 2.
Chemistry 1.
Zoology 2.
English 4 *or* **French** 3, with the remaining possible half course at the choice of the student from **Economics** 1 *or* **History** 2 *or* **Philosophy** 1 *or* 2 *or* 3.

First Year (B.Sc. Course).

Chemistry 1.
English 1 and 2.
French 2.
German 1 (b) *or* 3.
Mathematics 1.
Physics 1.

Second Year (B.Sc. Course).

English 3.
Biology:—Botany 2, Zoology 2.
Chemistry 2; and one course from among the following:—Geology 1; Mathematics 3; Physics 2 and 3; Economics and Political Science 2 *or* 3; English 4; History 3 *or* 5 and 7; Philosophy, any two of 1, 2, 3.

Proposed subjects to be taken in the School of Household Science at Macdonald College:

Third Year.

Economics (1 hour).
English (2 hours).
Principles of Teaching (1 hour—half-year).
Bacteriology (1 hour lecture, 2 laboratory periods—half-year).
Biology (1 hour lecture, 1 laboratory period).
Chemistry (1 hour lecture, 2 laboratory periods).
Foods (2 hours lecture, 2 laboratory periods).
The Home (1 hour lecture, 1 laboratory period).
Textiles and Clothing (3 hours—half-yearly).

Fourth Year.

English (2 hours).
Principles of Teaching (2 hours lecture—practice teaching).
Bacteriology (2 hours lecture, 1 laboratory period).
Chemistry (2 hours lecture, 2 laboratory periods).
Physics (3 hours—half-year).
Foods (2 hours lecture, 2 laboratory periods).
The Home (2 hours).

PARTIAL STUDENTS.

Students desiring to take a Partial Course in Arts are required to pass the matriculation examination in the subject or subjects which they intend to study, or, failing this, they must satisfy the Head of the Department as to their ability to follow the course. Subject to the above limitations, lectures are open to Partial Students in both Honour and Ordinary Courses, but no course or courses taken by such students

can count for a degree. Medals, scholarships, exhibitions and prizes shall not be awarded to Partial Students. A certificate of standing can be obtained from the Dean if requested. A partial student who fails in any subject at the First Term Examinations shall be allowed to continue that subject only on the recommendation of the Head of the Department concerned.

EXAMINATIONS IN ARTS.

There are two examinations in each session, the Intermediate and the Final. Intermediate Examinations are held either at the end of the first term, or at such intervals during the session as each department may prescribe. In the second, third and fourth years, Intermediate Examinations will be held or not, as may be determined by each department.

Students prevented by illness from attending the Intermediate Examinations will, on presenting a medical certificate to the Dean, be given sessional standing on the results of the Final Examination.

Undergraduates and conditioned undergraduates of the first year who fail in more than three subjects at the Intermediate Examinations will be allowed to attend not more than three full courses in the second term, for each of which they must obtain the permission of the Dean.

Seventy-five per cent. of the marks given for the sessional work in each subject will be assigned to the Final Examination.

Successful students are arranged in three classes.

Mid-term examinations for first year students will be held not later than November 15th. Absence from a mid-term examination will be excused only on presentation of a medical certificate. Failure to comply will mean loss of the year.

First Class General Standing at Graduation.—For an Ordinary B.A. degree of the first class, a candidate shall obtain first class standing in at least four of the eight subjects taken in the third and fourth years and not lower than second class in the remainder.

SUPPLEMENTAL EXAMINATIONS.

Examinations supplemental to final examinations are held in the month of September simultaneously with the matriculation examination. The date of the Supplemental examinations will be fixed by the Faculty, and no examination will be granted at any other time, except by special permission of the Faculty, and on payment of a fee of five dollars.

ADVANCEMENT FROM YEAR TO YEAR.

Advancement to the Second Year.—A student may proceed to the second year with any one full course of the first year (or its equivalent) unpassed.

Advancement to the Third Year.—A student may proceed to the third year with any one full course (or its equivalent) unpassed, unless that full course (or any part of it) belongs to the first year.

Advancement to the Fourth Year.—A student may proceed to the fourth year with any one full course (or its equivalent) unpassed, unless that full course (or its equivalent) is compulsory in the second year.

Repeating a Year.—By special permission of the Faculty, a student who is required to repeat a year may, on application:

(a) Be exempted from attending lectures and passing examinations in the subjects in which he has already passed;

(b) Be permitted to take, in addition to the subjects in which he has failed, one of the subjects of the following year in his course.

N.B.—The choice of subjects must involve no conflict of hours as printed in the time-table.

DOUBLE COURSES.

ARTS AND APPLIED SCIENCE.

Candidates for the degree of B.A. and B.Sc. (Applied Science) in six years will take the first three years in Arts only, before attending any regular courses in Applied Science, except the *Summer Courses.* They will then enter the Faculty of Applied Science and devote the remaining three years entirely to the work of that Faculty.

The summer courses (see page 204) are necessary in order to overtake the work in descriptive geometry, drawing and shopwork, which form part of the regular curriculum of the first year in Applied Science. These summer courses must be taken for two periods of one month each (in successive Septembers), after the completion of the regular session of the first and second years in the Faculty of Arts, respectively, and must not be taken during the regular session in any of the three years assigned to that Faculty.

Students who intend to take the double course in Arts and Applied Science must notify the Dean of the Faculty of Applied Science to that effect at or before the close of their first year in Arts (May 1st), and must, before the first of September following, pay the fee of $50.00 to the Bursar, for the first of their summer courses.

The requirements for each of the three years in the Faculty of Arts are as follows:—

First Year.

The curriculum as laid down for the B.A. degree, except that a modern language must be taken. It is recommended that mathematics 2 be taken instead of mathematics 1.

Second Year.

English 3.
French 3, *or* German 4.
German 4, *or* French 3, *or* English 4, *or* Economics and Political Science 1, and History 2, *or* Philosophy, any two of:—1, 2 and 3.
Latin 2, *or* Greek 3 *or* 4.
Mathematics 3 and 5 and 6 (students who have taken 2 may substitute 4 for 3).

Third Year.

Physics 2.
Any three of the following:—
English, any two of 5, 6, 7, 15, 18; Latin 3; French 6 *or* 7; German 5 *or* 6; Philosophy 4 *or* 7 *or* 11 *or* any two of 6, 8, 12; History 9 *or* 5 and 7; Economics and Political Science 2, 3.

The degree of B.A. will be conferred on double course students in Arts and Applied Science on the completion of the prescribed curriculum in Arts and the requirements of the second year in Applied Science.

ARTS AND MEDICINE.

The degrees of B.A. and M.D. may be obtained in eight years, of which the first two shall be taken in the Faculty of Arts, and the remaining six in the Faculty of Medicine. The course in Arts is as follows:—

First Year.

I. B.A., M.D.

English 1 and 2.
History 1.
Mathematics 1 *or* 2.
Latin 1 *or* Greek 1 *or* 2.
Any two additional languages.

Second Year.

English Composition 3.
Latin 2.
Any three of the following:
Economics and Political Science 1, and History 2.
English 4.
French 3.
German 4.
Hebrew 1.
Greek 3 *or* 4 *or* Latin 2.
Philosophy, any two of:—1, 2, 3.
Mathematics 3.

In the double course for the degrees of B.A., M.D., the degree of B.A. will be conferred on the completion of the above curriculum in Arts and of the second year in Medicine.

II. B.Sc., M.D.

For the requirements of the B.Sc. course for students proceeding to the Faculty of Medicine, see page 118.

ARTS AND DENTISTRY.

The degrees of B.A. and D.D.S. may be obtained in six years, of which the first two shall be taken in the Faculty of Arts and the remaining four in the Faculty of Dentistry. The course in Arts is the same as that prescribed for the double course of B.A., M.D. (see I, above).

B. COM. AND B.A.

Graduates in Commerce who desire to obtain the degree of B.A. may be admitted to the Third Year in Arts provided that at some time before entering Third Year Arts they shall have taken Latin 1 and 2 of the B.A. curriculum.

ARTS AND THEOLOGY.

Students who are pursuing a double course in Arts and Divinity (six years at least) will take in the third and fourth years the courses which constitute the ordinary curriculum in Arts, less a half course in each of these years, or a whole course in either.

COURSES OF LECTURES IN ARTS.

The hours of the ordinary lectures only are indicated; the hours for honour lectures will be arranged by the several departments at the opening of the session.

DEPARTMENT OF BOTANY.

PROFESSOR:—FRANCIS ERNEST LLOYD.
PROFESSOR OF MORPHOLOGICAL BOTANY:—CARRIE M. DERICK.

1. **General Biology.**
   As in first year Medicine.....Professor Lloyd, Dr. Jackson.

2. **Elements of Botany.**
   2 hrs. 2nd term; Mon., Wed., at 10.....4 hrs. lab.; Sat., 9 to 1.
   Professor Lloyd or Professor Derick.
   Prerequisite for all courses except 3, and also with Zoology for Honours in Biology.

3. **Classification of the Pteridophyta and Spermatophyta.**
   Eight lectures (optional). 2nd Term (Mar.-Apr.).
   Professor Lloyd or Professor Derick.

4. **Comparative Plant Morphology.**
   2 hrs. sess.; Tu., Fri., at 10....6 hrs. lab.....Professor Derick.

5. **Variation, Heredity and Evolution.**
   2 hrs. sess.; Tu., Fri., at 11.....Professor Derick.

6. **Histology and Anatomy.**
   2 hrs. sess.....4 hrs. lab.....Professor Lloyd.

7. **Elementary Plant Physiology.**
   2 hrs. sess.....6 hrs. lab.....Professor Lloyd.

8. **Algae of Water Supplies; Plant Pathology.**
   2 hrs. sess.....6 hrs. lab.....Professor Derick.

HONOUR COURSE IN BIOLOGY.

Prerequisites: Botany 2, Chemistry 1, Zoology 2.
Third Year: Botany 4 and 6; Zoology 3 and 4.
Fourth Year: Botany 7 and 8; Zoology 5 and 6.

GRADUATE COURSE.

Prerequisites: Botany 2 to 8; Chemistry 1; Zoology 2; or equivalent courses taken elsewhere.

Special courses to meet the needs of students who may be preparing for particular vocations can usually be arranged for on consultation with the Professor.

DEPARTMENT OF CHEMISTRY.

PROFESSOR:—R. F. RUTTAN.

ASSOCIATE PROFESSORS:—N. N. EVANS. F. M. G. JOHNSON. V. J. HARDING.

ASSISTANT PROFESSORS:—V. K. KRIEBLE. OTTO MAASS.

LECTURER:—A. R. M. MACLEAN.

DEMONSTRATORS:—G. S. WHITBY. C. GREAVES. W. McG. MITCHELL. C. A. WRIGHT. J. F. LOGAN. G. M. FOWLER. L. AMDUR. W. F. EMMONS.

(Unless otherwise specified, all lectures and laboratory courses are given in the Chemistry Building.)

General Chemistry.

3 hrs. sess.; Mon., Tu., Th., at 2....Professors Ruttan and Evans.
4 hrs. lab., Mon., Thu., 3 to 5..
Dr. A. R. MacLean and Messrs. Wright and Amdur.
Text-books:—Alex. Smith, General Chemistry for Colleges, new edition.

2. **Organic Chemistry.**

3 hrs. 1st term; Mon., Wed., Fri., at 3.....Professor Ruttan (Old Medical Building).
2 hrs. 2nd term; Tu., at 10, Th., at 12...Asst. Professor Krieble.
6 hrs. lab., 2nd term.....Dr. A. R. MacLean and Mr. Whitby.
Text-books:—Remsen or Perkin and Kipping.

3. **Analytical Chemistry.**

(a) QUALITATIVE ANALYSIS.
1 hr. 1st term; 9 hrs. lab.....Professor Evans and Mr. Amdur.
Text-book:—Steiglitz, Qualitative Analysis.
(b) QUANTITATIVE ANALYSIS.
1 hr. 2nd term; 12 hrs. lab...Professor Johnson and Mr. Greaves.
Text-book:—Cumming and Kay, Quantitative Analysis.

4. **Elementary Physical Chemistry.**

2 hrs. 1st term; Tu., at 10, Th., at 12.....Asst. Professor Maass.
Text-book:—Walker, Introduction to Physical Chemistry.

5. **Organic Chemistry (Advanced).**
2 hrs. sess.; Tu., at 9, Fri., at 11....
Professors Ruttan and Harding.
12 hrs. lab....
Professor Ruttan, Assistant Professor Krieble, Dr. MacLean and Mr. Whitby.

6. **Inorganic Chemistry (Advanced).**
2 hrs. sess.; Wed. and Fri., at 10.....Professor Johnson.

7. **Physical Chemistry (Advanced).**
2 hrs. sess.; Wed. and Fri., at 9.....Asst. Professor Maass.
6 hrs. lab.; Mon. and Wed., 2 to 5....
Asst. Professor Maass and Mr. Wright.

8. **Quantitative Analysis (Advanced).**
1 hr. sess.....Professor Johnson and Mr. Greaves.
12 hrs. lab.

9. **Historical Chemistry.**
1 hr., 2nd term.....Asst. Professor Maass.

10. **Biological Chemistry.**
3 hrs. sess., 2nd term; Mon., Wed. and Fri., at 3....
(Old Medical Building.) Professor Ruttan.
6 hrs. lab., 2nd term; Wed. and Sat., 9 to 12....
(Old Medical Building.)
Professor Ruttan, Professor Harding and Mr. Logan.
Text-book:—Hawk's Practical Physiological Chemistry.

11. **Biological Chemistry (Advanced).**
5 hrs. lab., 2nd term.....
(Old Medical Building.)
Professor Ruttan and Professor V. J. Harding.

12. **Electro-Chemistry.**
2 hrs., 1st term; Mon., at 9, Fri., at 12....Asst. Professor Maass.

13. **Food Chemistry.**
1 hr., 2nd term; Tu., at 11.....Professor Ruttan.

14. **Industrial Inorganic Chemistry.**
2 hrs., 1st term; Wed. and Fri., at 11.....Professor Johnson.

15. **Industrial Organic Chemistry.**
2 hrs., 2nd term; Wed. and Fri., at 11.....Professor Ruttan.

HONOUR COURSE IN CHEMISTRY.

Prerequisites: 1.

Third Year: 2, 3, 4; Physics 2; and a half-course in calculus or biology or geology or mineralogy or scientific German.

Fourth Year: (a) 5, 7, 9, 10 (11 optional), or, (b) 6, 7, 8, 9; Physics 3.

HONOUR COURSE IN CHEMISTRY AND BIOLOGY.

Second Year: Latin 2; English 3; Chemistry 1; Botany 2; Zoology 2; and either French 3, or German 4. *Third Year*: Either Physics 2 or French 7 or German 6 and Chemistry 2 (first term only), 3 (a) and 10; Zoology 3; Botany 4 or 7. *Fourth Year*: A full course in physics or biology or advanced chemistry and Chemistry 3 (b), 11; Zoology 5 and 6; Botany 6.

DEPARTMENT OF CLASSICS.

PROFESSOR:—S. B. SLACK.

ASSISTANT PROFESSOR:—R. A. MACLEAN.

LECTURERS:— { A. M. THOMPSON. / ———————.

SESSIONAL LECTURER AND TUTOR (ROYAL VICTORIA COLLEGE):—
ELIZABETH A. IRWIN.

Greek.

All students taking Greek are expected to provide themselves with a grammar, a Greek-English dictionary, a classical dictionary, and an Atlas of ancient geography. The following are recommended:—An Elementary Greek Grammar, Bryant and Lake (Oxford Univ. Press); *or* Goodwin's Greek Grammar (Ginn & Co.); Liddell and Scott's Greek Lexicon (abridged or intermediate); Classical Atlas (Everyman Series, Dent); Smith's Smaller Classical Dictionary (Everyman Series, Dent).

1. Beginners' Greek.

4 hrs. sess.; Mon., Tu., Th., Fri., at 3.....

Text-books:—White's First Greek Book (Ginn & Co.); Passages for Greek Translation (Peacock & Bell, Macmillan). Students who take the Beginners' Greek Course will be required to attend a continuation class during May and June, unless specially exempted.

2. Ordinary Greek.

4 hrs. sess.; Mon., Tu., Th., Fri., at 3.....

Text-books:—Cebetis Tabula (Jerram, Clarendon Press); Euripides, Heraclidae (Jerram, Oxford Univ. Press). *Composition*:—

Greek Exercises, Bryant and Lake (Oxford Univ. Press) and Elementary Greek Grammar, Bryant and Lake (Oxford Univ. Press). *Translation at sight*:—Jerram Anglice Reddenda, Second Series.

3. Greek.

4 hrs. sess.; Mon., Tu., Th., Fri., at 4.....

Summer reading:—Greek History for Schools, Edmonds, pp. 140-217 (Camb. Univ. Press).

Text-books:—Greek Reader, Vol. I, by E. C. Marchant (Clarendon Press), pp. 8 to 60, omitting Part II, Section I. *Composition*:—North and Hillard, Greek Prose Composition (Rivingtons). *Translation at sight*:—As in 2. Prerequisite:—1.

4. Greek.

4 hrs. sess.; Mon., Tu., Th., Fri., at 4.....

Summer reading:—As in 3. *Texts*:—Sophocles, Antigone; Plutarch, Coriolanus (Clarendon Press). *Composition*:—North and Hillard, Greek Prose Composition (Rivingtons). *Translation at sight*:—As in 2.

5. For the Session 1921-1922. To be announced next year.

6. Greek Language and Literature.

4 hrs. sess.; Mon., Tues., Wed., Fri., at 11....Professor Slack.

Texts:—Plato, Protagoras; Euripides, Phoenissae. *Composition*:—As in 4; also Sidgwick, Introduction to Greek Prose Composition (Longmans). *Translation at sight*:—Fowler, Sportella. *Literature*:—A course of twelve lectures on some period of Greek history or literature or on some aspect of Greek life or thought.

7. For the Session 1921-1922. To be announced next year.

8. Greek.

4 hrs. sess.; Mon., Tu., Wed., Th., at 9.....

Texts:—Thucydides VII; Aeschylus, Agamemnon. *Composition*:—Mackie, Parallel Passages (Macmillan & Co.), and from dictation. *Translation at sight*:—Models and Exercises in Unseen Translation. Fox and Bromley (Clarendon Press).

HONOUR COURSE.

Prerequisites:—Greek 1 and 3, or 2 and 4.

Third and Fourth Years: Greek 6 and 8. Honour students will also do the following private readings. Third and Fourth Years, Aeschylus, Persae; Fourth Year only, Xenophon, Oeconomicus; Demosthenes, Androtion.

GRADUATE COURSES.

Suggested Subjects:—

1. The Phoenicians in Homer.
2. Socialistic theories in antiquity.
3. The accounts of Egypt in Herodotus and other Greek writers.
4. Life and times of Demosthenes.
5. The position of Proclus in philosophy.

N.B.—See note under Latin Graduate Courses.

Latin.

All students taking Latin are expected to provide themselves with a grammar, a Latin-English Dictionary, a classical Dictionary, and an Atlas of Ancient Geography. The following are recommended:—Sonnenschein, New Latin Grammar (Clarendon Press, 1912; N.B.—Note the exact title); Lewis, School Dictionary, *or* White, Junior Students' Latin-English Dictionary; "Everyman" Classical Atlas (Dent.); Smith, Smaller Classical Dictionary ("Everyman" Series, Dent.).

The following book is also recommended: Roman History Literature and Antiquities by A. Petrie (Oxford Univ. Press).

1. Latin.

4 hrs. sess.; Mon., Wed., Th., Fri., at 10 (Men).

4 hrs. sess.; Mon., Tu., Wed., Fri., at 11 (Women, R.V.C.).

Text-books:—Virgil Aeneid VI; Petrie's Latin Reader, Extracts from Cicero, Sallust and Pliny (omitting Nos. 40 and 68). (Oxford Univ. Press.) *Composition*:—North and Hillard, Latin Prose Composition (Rivingtons). *Translation at sight*:—Rivingtons' Class Books of Latin Unseens, Book III. *Grammar*:—Sonnenschein, New Latin Grammar (Clarendon Press, 1912. N.B.—Note the exact title), pages 178-211.

Advanced Class:—See 7.

2. Latin.

4 hrs. sess.; Mon., Tu., Th., Fri., at 12 (Men); Mon., Tu., Th., Fri., 12 (Women, R.V.C.).

Texts:—Cicero, Pro Roscio Amerino (Stock, Clarendon Press); Horace, Odes I; Ovid, Elegiac Poems, Vol. I., pp. 30-51 (Pearce, Clarendon Press). *Composition*:—North and Hillard, Latin Prose Composition. *Translation at sight*:—Anglice Reddenda, Second Series (Clarendon Press). *Grammar*:—Sonnenschein, New Latin Grammar (Clarendon Press, 1912. N.B.—Note the exact title), pages 123-178.

Advanced Class:—See 7.

3. For the Session 1921-1922. Subjects to be announced next year.

4. **Latin Language, Literature and History.**

4 hrs. sess.; Mon., Wed., Th., Fri., at 10.....

Lectures:—Texts: Horace, Epistles II, and De Arte Poetica, Literature of the Empire, Education, Literature and Philosophy (Latin Literature of the Early Empire, Brown, Clarendon Press); Seneca, Letters, p. 97 to end (Seneca, Summers, Macmillan). *Composition*:—Continuous Latin Prose, Dakers (Rivingtons). *Translation at sight*:—Alford's Latin Passages for Sight Translation (Macmillan). *Literature*:—A course of twelve lectures on Roman history, antiquities, literature or religion.

5. For the Session 1921-1922. Subjects to be announced next year.

6. **Latin.**

4 hrs. sess.....

Texts:—Cicero, Tusculans I and Pro Milone; Lucretius V. *Composition*:—Nixon, Prose Extracts for Translation into English and Latin (Macmillan). *Translation at sight*:—Fox and Bromley, Models and Exercises in Unseen Translation (Clarendon Press).

7. At the beginning of the second term, if not before, an Advanced Class will be formed to prepare for Second Year Exhibitions and Third Year Scholarships. This class will be open to qualified students of the first two years.....Professor Slack.

Honour Course.

Prerequisites:—Latin 1 and 2.

Third and Fourth Years:—Latin 4 and 6 and the following additional books for private reading: For Third and Fourth Years, Horace, Odes III; For Fourth Year only, Cicero pro Cluentio; Virgil, Aen. VI.

Graduate Courses.

For students who wish to take the above, the following subjects are suggested:—

1. Virgil as an Epic Poet.
2. The treatise ad Herennium.
3. Social Life of the Empire.
4. Latin poetry from the death of Terence to the death of Lucretius.
5. The History of the East, including Egypt, from 31 B.C. to 96 A.D.

N.B.—It is not likely that more than one of the ten subjects given under the headings Latin and Greek can be taken up in the session 1920-1921. The list therefore is intended for the guidance of students,

but precise details with regard to the books prescribed and the thesis are reserved for further discussion.

Comparative Philology.

1. **Introductory Course.**
   2 hrs. 1st term.....Professor Slack.

2. **Latin and Greek Historical Grammar.**
   2 hrs. 2nd term.....Professor Slack.

DEPARTMENT OF ECONOMICS AND POLITICAL SCIENCE.

PROFESSOR:—STEPHEN LEACOCK.
ASSOCIATE PROFESSOR:—J. C. HEMMEON.
ASSISTANT PROFESSOR:—B. K. SANDWELL.

1. **Elements of Political Economy.**
   2 hrs. sess.; Mon., Fri., at 11.....Professor Leacock.

2. **Principles of Economic Theory.**
   4 hrs. sess.; Mon., Tu., Wed., Fri., at 11..Professor Hemmeon.

3. **Principles of Political Science.**
   4 hrs. sess.; Mon., Tu., Th., Fri., at 2.....Professor Leacock.

4. **Labour Problems.**
   4 hrs. 1st term; Mon., Tu., Wed., Fri., at 10....Prof. Hemmeon. (Given in 1921-22.)

5. **Money and Banking.**
   4 hrs. 2nd term; Mon., Tu., Th., Fri., at 3....Professor Leacock. (Given in 1921-22.)

6. **Political Economy Prior to the Nineteenth Century.**
   4 hrs. 1st term; Mon., Tu., Wed., Fri., at 10..Prof. Hemmeon. (Given in 1920-21.)

7. **Political Economy in the Nineteenth Century.**
   4 hrs. 2nd term; Mon., Tu., Th., Fri., at 3..Professor Leacock. (Given in 1920-21.)

8. **Economic Factors in the Development of Society.**
   4 hrs. 1st term; Mon., Tu., Wed., Fri., at 10..Prof. Hemmeon. (Given in 1922-23.)

9. **The Political and Social Theories of Modern Times.**
   4 hrs. 2nd term; Mon., Tu., Th., Fri., at 3..Professor Leacock. (Given in 1922-23.)

10. **Canada:—Federal and Provincial Governments.**
    4 hrs. 1st term; Mon., Tu., Th., Fri., at 3...Professor Leacock.

11. Public Finance.

4 hrs. 2nd term; Mon., Tu., Wed., Fri. at 10.....Prof. Hemmeon.

12. Canada:—Industrial and Economic Problems.

2 hrs. sess.; Tu., Wed., at 9.....Prof. Hemmeon.

13. Seminar.

Conferences with graduate students at hours specially arranged. Prof. Leacock, Assoc. Prof. Hemmeon and Asst. Prof. Sandwell.

HONOUR COURSE.

Prerequisite: No. 1. *Third Year*: Nos. 2 and 3, together with 4 and 5, or 6 and 7, or 8 and 9 (according to the year), and one approved course in History or French or Philosophy. *Fourth Year*: Nos. 4 and 5, or 6 and 7, or 8 and 9 (according to the year), and Nos. 10, 11, 12 and one half-course (approved) in History or French or Philosophy or Roman Law.

GRADUATE COURSE FOR M.A. DEGREE.

Prerequisites: Nos. 2, 3, 4 and 5 (or 6 and 7; or 8 and 9); 10, 11, or equivalent courses taken elsewhere. Resident study, one year, with at least eight lectures a week selected from (a) any courses among Nos. 4 to 12 (inclusive), not already taken, (b) any special courses offered from time to time, (c) any courses approved by the department, together with a thesis. Non-resident study: At least two years' work covering the same ground as above, with examinations, and a thesis.

Students who propose to take Economics and Political Science as a minor subject for the M.A. degree must have taken as undergraduates Courses Nos. 1, 2, 3 and two other full courses, or work in another University recognized by the department as the equivalent of this.

SCHOLARSHIPS.

For scholarships, see page 86.

DEPARTMENT OF EDUCATION.

DEAN OF THE SCHOOL FOR TEACHERS, MACDONALD COLLEGE, AND PROFESSOR OF EDUCATION:—SINCLAIR LAIRD.

(For the staff of the School for Teachers, see Officers of Instruction.)

1. Theory and Practice of Education.

2 hrs. sess.....

A. First Term,
   (a) General Theory; Mon., at 5.
   (b) Modern History; Th., at 5.

B. Second Term,
   Contemporary Problems, Mon., Th., at 5.

2. **History of Education:—Ancient and Medieval.**
2 hrs. sess.; Wed., Fri., at 5.....
1 and 2 are required for the First Class Academy Diploma of the Province of Quebec, together with (a) fifty half-days of observation and practice, which can be taken partly in term time, and may be divided between the years; (b) a course in physical education qualifying for the Strathcona certificate B. This course is taken in the fourth year, before Christmas. See page 294.

GRADUATE COURSE.

3. **Readings, Reports, Theses.**

TRAINING OF TEACHERS.

The University, through its Department of Education, undertakes the training of teachers in all grades required by the Province; and through the Teachers Training Committee offers training for specialists in certain subjects. See page 158.

DEPARTMENT OF ENGLISH.

PROFESSOR:— ————————
PROFESSOR OF COMPARATIVE LITERATURE AND ASSOCIATE PROFESSOR OF ENGLISH:—P. T. LAFLEUR.
ASSOCIATE PROFESSOR:—CYRUS MACMILLAN.
ASSISTANT PROFESSOR:—G. W. LATHAM.
LECTURER:—MURIEL B. CARR.

1. **English Composition.**
1 hr. sess.; Mon., at 12 (Men); Tu., at 9 (Women, R.V.C.)....Asst. Professor Latham and Mr. Scott.
Required of all first year undergraduates.

2. **English Literature: General Course.**
2 hrs. sess.; Tu., Th., at 12 (Men).....Professor Macmillan.
Mon., Wed., at 9 (Women, R.V.C.).....Miss Carr.
Required of all first year undergraduates.

3. **English Composition.**
1 hr. sess.; Fri., at 3 (Men).....Professor Macmillan.
Fri., at 3 (Women, R.V.C.).....Miss Carr.
Required of all second year undergraduates.

4. **English Prose From Bacon to Stevenson.**
3 hrs. sess.; Mon., Tu., Th., at 3.....Professor Lafleur, Professor Macmillan, Asst. Professor Latham and Miss Carr.

5. **Pre-Shakesperian Drama and Shakespere.**
2 hrs. sess.; Mon., Th., at 4.....Professor Macmillan
(Omitted in 1920-21.)

6. **Shakespere (Five Plays).**
2 hrs. sess.; Tu., Th., at 11.....Professor Macmillan.

7. **Poetry and the Drama From Dryden to Moore.**
2 hrs. sess.; Tu., Th., at 10.....Professor Macmillan.

8. **Argumentation and Debating.**
2 hrs. sess....Asst. Professor Latham and Professor Macmillan.
(Omitted in 1920-21.)

9. **Poets of the Nineteenth Century.**
2 hrs. sess.; Tu., Friday, at 4.....
Professor Lafleur and Miss Carr.

10. **English Novelists, From Defoe to George Eliot.**
2 hrs. sess.; Mon., Fri., at 11.....Professor Lafleur.

11. **The English Drama, 1590-1642.**
2 hrs. sess.; Mon., Wed., at 12.....Professor Macmillan.

12. **Methods of Literary Criticism.**
2 hrs. sess.; Wed., Th., at 11.....Professor Lafleur.

13. **Anglo-Saxon.**
2 hrs. sess.; Tu., Fri., at 2.....Asst. Professor Latham.
Text-book:—Sweet, Anglo-Saxon Reader (all the prose).

14. **Anglo-Saxon Poetry and Introduction to Germanic Philology.**
2 hrs. sess.; Tu., Fri., at 3.....Assistant Professor Latham.
Text-books:—Sweet, Anglo-Saxon Reader (all the verse); Wright, Old English Grammar (second edition); Wright, Primer of the Gothic Language.
Prerequisite:—13.

15. **Chaucer and Milton.**
2 hrs. sess.; Tu., Th., at 9.....Miss Carr.

16. **Comparative Literature.**
The influence of English literature upon the continent of Europe chiefly during the 18th and 19th centuries.
2 hrs. sess.; Mon., Fri., at 10.....Professor Lafleur.

17. **Comparative Methods in Literary Study.**
The literary relations between the continent of Europe and England through the works of leading French, German, Spanish and Italian writers, beginning with Montaigne.
2 hrs. sess.; Mon., Fri., at 10.....Professor Lafleur.

18. American and Canadian Literature.

2 hrs. sess.; Tu., Th., at 12.....

Assoc. Prof. Macmillan and Asst. Prof. Latham.

HONOUR COURSE.

Prerequisite:—4.

Third Year:—5, 6, 7, 13, 15, 16 or 17, and another half course.

Fourth Year:—9, 10, 11, 12, 14, 16 or 17, 19.

English requirements for the honour courses in English and Latin, English and French, and English and German:—

Third Year:—13, and three courses (aggregating six hours) chosen from 5 to 19.

Fourth Year:—14, and three courses (aggregating six hours) chosen from 5 to 19, not taken in the third year.

English requirements for the honour courses in English and History, English and Philosophy:—

Third Year:—Any courses aggregating eight hours chosen from 5 to 19.

Fourth Year:—Any courses aggregating eight hours chosen from 5 to 19, not taken in the third year.

GRADUATE COURSES.

20. Anglo-Saxon.

Beowulf.

2 hrs. sess.....Miss Carr.

21. Germanic Philology.

2 hrs. sess.....Asst. Professor Latham.

22. Comparative Literature.

Epistolatory Literature.

2 hrs. sess.....Professor Lafleur.

23. Comparative Literature.

Memoirs and Memoir-Writers beginning with Philippe de Commines.

2 hrs. sess.....Professor Lafleur.

24. Chaucer.

2 hrs. sess.....Asst. Professor Latham.

Prerequisite:—15.

25. Drama in England From 1642 to 1900.

2 hrs. sess.....Professor Macmillan.

Candidates for M.A. in English must take twelve hours of lectures a week, six of which shall be selected from "Graduate Courses." The

remainder may be selected from 5 to 19, inclusive, if not already taken; 13 is compulsory.

Candidates for M.A. with English as a major subject must take eight hours of lectures a week, four of which must be selected from "Graduate Courses." Course 13 or its equivalent is compulsory.

Candidates for M.A. with English as a minor subject must take four hours of lectures a week, exclusive of 1 to 4.

DEPARTMENT OF GEOLOGY AND MINERALOGY.

PROFESSORS:— { FRANK D. ADAMS. / J. AUSTEN BANCROFT.

ASSISTANT PROFESSOR OF MINERALOGY:—RICHARD P. D. GRAHAM.

LECTURER:————

SESSIONAL LECTURER:—JOHN A. DRESSER.

1. General Geology.

3 hrs. sess.; Mon., Wed., Fri., at 9.....
Professors Adams and Bancroft.

Weekly excursions on Saturday morning while the season permits.
On their discontinuance, 2 hrs. lab., Sat., at 10.

Text-book:—Scott, Introduction to Geology.

2. Physiography.

2 hrs. sess.; Th., Fri., at 2.....Professor Bancroft.

Prerequisite:—1.

3. Canadian Geology.

1 hr., 1st term. Wed., at 11.....Professor Bancroft.

Prerequisite:—1.

4. Historical Geology (Advanced).

1 hr. sess. (hour to be arranged); 2 hrs. lab., 2nd term.

Prerequisite:—1.

5. Mineralogy.

2 hrs. sess.; Tu., Th., at 9.....Assistant Professor Graham.

6. Determinative Mineralogy.

2 lab. periods of 3 hrs. each during the first term.
Th., Fri., at 2.....Assistant Professor Graham.

7. Ore Deposits.

4 hrs., 2nd term; Tu., at 10; Wed., Th., at 11..Professor Adams.

8. Economic Geology.

1 hr., 1st term; Th., at 11.....Professor Bancroft.

9. **Mineralogy.**
2 lab. periods, 1st term, 3 hrs. each.
Hours to be arranged.....Assistant Professor Graham.

10. **Petrography.**
1 hr., 1st term; Tu., at 10; 1 lab. (3 hrs.) sess....
Professor Bancroft and Assistant Professor Graham.

11. **Palaeontology.**
1 hr., 1st term; 1 lab. (3 hrs.), 1st term.
All hours to be arranged.

12. **Geological Colloquium.**
One evening in alternate weeks (to be arranged).....
Professor Adams, Professor Bancroft, Asst. Professor Graham.

13. **Geological Survey.**
Two weeks at the close of the third year, or immediately before beginning the regular course of the fourth year.

HONOUR COURSE.

Third Year:—1, 5, 6; also Zoology 2 and Chemistry 1 (if not already taken, in which case equivalent courses will be assigned).
Fourth Year:—2, 3, 4 and 7 to 13, inclusive; also Botany 2.

DEPARTMENT OF HISTORY.

PROFESSOR:—CHARLES W. COLBY. (On leave.)
ASSOCIATE PROFESSOR:—C. E. FRYER.
SESSIONAL LECTURER:— ————————

The courses enumerated below are the same as those which were offered in 1919-20. A revised announcement for the Department will be made at the beginning of the session 1920-21.

1. **Great Men and Great Movements.**
2 hrs. sess.; Tu., at 10; Th., at 11 (Men); Fri., at 9; Wed., at 12 (Women, R.V.C.).....

2. **The European States System.**
2 hrs. sess.; Tu., Wed., at 11.....Professor Fryer.

3. **History of Europe, 1519-1789.**
4 hrs. sess.; Mon., Wed., Th., Fri., at 10.....

4. **The Renaissance.**
2 hrs. sess..... .....
(Omitted in 1920-21.)

5. **The Political History of Europe From 1815-1878.**
2 hrs. sess.....
(Omitted in 1920-21.)

6. **Europe Since the Fall of Bismarck.**
2 hrs. sess.; Mon., Wed., at 4.....
(Omitted in 1920-21.)

7. **History of Canada, 1763-1837.**
2 hrs. sess.....Professor Fryer.

8. **Historical Method and Criticism.**
Seminar, 2 hrs. sess.....Professor Fryer.

9. **The History of England Since 1784.**
4 hrs. sess.; Mon., Tu., Th., Fri., at 9.....Professor Fryer.

10. **Recent History of the Great Powers.**
2 hrs. sess.....Professor Fryer.

11. **History of European Colonisation**
2 hrs. sess.....

HONOUR COURSE.

Prerequisites:—1 and 2.

History requirements for the honour course in History and English (1920-21):—

Third Year:—5, 7, 9.

Fourth Year:—5, 9, 8 or 10 or Economics and Political Science 10.

GRADUATE COURSE.

Prerequisites:—1 and 2 and two full courses selected from courses 3 to 10, inclusive, or equivalent courses taken elsewhere.

LAW.

PROFESSOR:—R. W. LEE.

1. **Roman Law.**
3 hrs. sess.; Mon., Wed., Fri., at 9.30 a.m.....Dean Lee.

2. **Jurisprudence.**
2 hrs. sess.; Tues., Th., at 9.30.....Professor Smith.

DEPARTMENT OF MATHEMATICS.

PROFESSOR:—J. HARKNESS.

ASSOCIATE PROFESSORS:—T. RIDLER DAVIES. L. V. KING.

ASSISTANT PROFESSOR:—C. T. SULLIVAN.

1. **Ordinary Mathematics.**

4 hrs. sess.; Mon., Tu., Wed., Th., at 9 (Men); Mon., Tu., Th., Fri., at 12 (Women, R.V.C.)....Associate Professor Davies.

Plane and Solid Geometry:—2 hrs. 1st term.

Text-book:—Hall and Stevens.

Algebra:—2 hrs. 2nd term.

Text-book:—Hall and Knight (omitting chaps. 40 to 42 inclusive).

Trigonometry:—2 hrs. sess.

Text-books:—Hall and Knight, Elementary Trigonometry (to page 210 and chap. 19); Bottomley, Logarithmic Tables.

2. **Advanced Ordinary Mathematics.**

Geometry and trigonometry and modern pure geometry; advanced algebra, higher trigonometry and theory of equations.

4 hrs. sess..: Professor Harkness and Associate Professor Davies.

3. **Solid Geometry and Geometrical Conic Sections and Algebra.**

3 hrs. sess.; Mon., Wed., Fri., at 11..Associate Professor Davies.

Solid Geometry:—

Text-book:—Wilson, Solid Geometry and Geometrical Conics.

Algebra:—Permutations and combinations; binomial theorem; exponential and logarithmic series; interest, annuities and bonds; undetermined co-efficients; partial fractions; summation of typical series; probabilities; determinants; graphic methods.

Text-book:—Hall and Knight, Higher Algebra.

4. **Analytical Geometry and Infinitesimal Calculus.**

4 hrs. sess.; Mon., Wed., Th., Fri., at 10....Professor Harkness.

Advised Elective No. 5.

5. **Spherical Trigonometry.**

1 hr., 2nd term.....Associate Professor Davies.

6. **Dynamics, Statics and Hydrostatics.**

2 hrs. sess.....Associate Professor King

Prerequisite:—1 or 2—preferably 2.

7. **Advanced Differential Calculus, Differential Equations and Geometry of Three Dimensions.**

4 hrs. sess.....Professor Harkness.

8. Theory of Functions.

3 hrs. sess.....Professor Harkness.

9. Modern Differential Equations.

2 hrs. sess.....Professor Harkness.

10. Modern Analytical Geometry.

5 hrs. sess.....Professor Harkness.
(Omitted in 1920-21.)

11. Differential Equations of Physics.

5 hrs. sess.....Professor Harkness.
(Omitted in 1920-21.)

12. The Elements of Astronomy.

2 hrs. 1st or 2nd term as may be arranged.....
Prerequisites:—1 and 3. Associate Professor Davies.

HONOUR COURSE IN MATHEMATICS AND PHYSICS.

Prerequisites:—Mathematics 2; Physics 1.
Second Year:—Mathematics 4, 5, 6; Physics 2, 4.
Third Year:—Mathematics 7, 12; Physics 3, 5, 6, 7.
Fourth Year:—Mathematics 8, 9; Physics 8, 9, 10, 11, 12, 13.

GRADUATE COURSE.

Mathematics:—8, 9. Prerequisites:—2, 3, 4, 5, 6, 7.

DEPARTMENT OF MODERN LANGUAGES.

PROFESSOR:—HERMANN WALTER.

ASSOCIATE PROFESSOR:—R. DU ROURE.

ASSISTANT PROFESSORS:—J. L. MORIN. E. T. LAMBERT. P. VILLARD.

LECTURER IN FRENCH (ROYAL VICTORIA COLLEGE):—MLLE L. TOUREN.

A.—French.

Owing to the position which this University occupies in the midst of a very large French-speaking population, there is a permanent demand for courses of a practical, conversational character. The Department profits by the co-operation of French church services, French newspapers, French theatres, French literary clubs, and public lecture courses in the French language.

1. French Language.

4 hrs sess....
Mon., Wed., Th., Fri., at 10 (Women, R.V.C.).
Mon., Tu., Wed., Fri., at 11 (Men).
Asst. Professors Morin, Villard and Mlle Touren.

Texts:—(a) Bouvet, French Syntax and Composition (Heath); Super-Histoire de France (Holt); Mansion, Extracts for French Composition (Heath); Fabliaux et Contes du Moyen Age (Heath). (b) Daudet, Trois Contes Choisis (Heath); Maupassant, Huit Contes Choisis (Heath); Labiche, Le Voyage de M. Perrichon (Holt); Malot, Sans Famille (Heath); Poésies Choisies.

Advanced Section, in place of course (b):—Daudet, Tartarin de Tarascon (A.B. Co.); Sand, La Petite Fadette (Heath); Racine, Andromaque (Ginn); Mérimée, Colomba (Heath); Montesquieu, Lettres Persannes (Macmillan); Poésies Choisies.

2. French Science Readings.

2 hrs. sess.....Asst. Professor Villard.
Text:—Bowen, A First Scientific French Reader (Heath).

3. French Language.

4 hrs. sess.; Mon. Tu., Wed., Th., at 9 (Women, R.V.C.).
Mon., Tu., Wed., Th, at 9 (Men).....
Asst. Professors Morin, Villard, and Mlle Touren.

Texts:—(a) Grandgent, French Composition (Heath); Corneille, Le Cid (Heath); Vigny, Cinq-Mars, (Heath); Elementary Historical French Grammar. (b) Racine, Britannicus (Holt); Moliere, Les Femmes Savantes (Heath); Sand, La Mare au Diable (Heath); Chateaubriand, Atala (Heath); Mansion, Littérature française.

Advanced Section, in place of course (b):—Molière: Les Précieuses ridicules (Heath); Lesage: Gil Blas (A. B. Co.); Voltaire: Zadig (Macmillan); Musset: Trois Comédies (Heath); Balzac: Cinq Scènes de la Comédie humaine (Heath); Mansion: Littérature française.

Private Readings:—Pailleron: Le Monde où l'on s'ennuie (Heath); Hugo: Quatre-Vingt-Treize (Heath).

4. French Commercial Course.

2 hrs. sess.....Asst. Professor Villard
Text:—Janau, Commercial French Correspondence (Longmans). Commercial students also take 3 (a).

5. French Commercial Course. Asst. Professor Villard.

Histoire de la Littérature française au 19ème siècle; Janau, Commercial French Correspondence; Clerget, Manuel d'économie commerciale.

6. French Literature:—General Course to the end of the Seventeenth Century.

4 hrs. sess.; Mon., Tu., Th., Fri., at 12.

(Given in 1920-21.).....Prof. Du Roure and Mlle Touren.

Texts:—Oxford Book of French Verse; Darmsteter, Morceaux Choisis du XVIIe siècle (Delagrave); Montaigne, Selections (Heath); Rabelais, Selections (Macmillan); French Prose of the XVIIth Century (Heath); Corneille, Nicomède (Macmillan); Racine, Les Plaideurs (Heath); Molière, Le Misanthrope (Oxford); Boileau, Selections (Heath); Doumic, Histoire de la Littérature française.

Prose Composition:—Spiers, Translation into French Prose (Simpkin, Marshall).

7. French Literature:—General Course, Eighteenth and Nineteenth Centuries.

4 hrs. sess.; Mon., Tu., Th., Fri., at 12.

(Given in 1921--22.)

Texts:—Lesage, Gil Blas (Heath); Buffon, Discours sur le style; Marivaux, Le jeu de l'amour et du hasard (Macmillan); Diderot, Selections (Heath); Sedaine, Le Philosophe sans le savoir; J. J. Rousseau, Selections; Voltaire, Zaire; Chateaubriand, Atala René (Nelson); Flaubert, Trois Contes (Nelson); Hugo, Préface de Cromwell (Oxford); Balzac, Eugénie Grandet (Nelson); Taine, Origines de la France Contemporaine (Holt); Les Maitres de la Critique Contemporaine (Heath); Doumic, Histoire de la Littérature française.

Prose Composition:—Spiers, Graduated Course of Translation into French Prose (Simpkin, Marshall & Co., London).

N.B.—In order to be admitted to courses 5 and 6 a student must know French well enough to take lectures delivered in French and express himself in French with some fluency and correctness.

8. Mediaeval French Literature and Philology.

3 hrs. sess.....Professor Walter.

(Given in 1921-22.)

Texts:—Darmsteter's Cours de Grammaire Historique, Parts I and II, and Bartsch, Chrestomathie de l'Ancien Français.

9. Composition.

1 hr. sess.....Professor Du Roure.

Nicholson and Brennan, Passages for Translation into French and German (Oxford University Press).

10. History of the French Novel.

2 hrs. sess.....Professor Du Roure.

(Given in 1920-21.)

11. Evolution of the French Lyric.

1 hr. sess.....

(Given in 1921-22.)

HONOUR COURSE.

Prerequisites:—1, 3.

Third and Fourth Years:—6, 7, 8, 9 (two years), 10, 11.

In order to obtain honours, candidates must be able to speak French fluently.

GRADUATE COURSE.

The following resident graduate courses will be offered in 1920-21.

M.A. COURSES.

1. Comparative Literature (English Section, Course 16). Two hours weekly.
2. Versification, histoire et technique. One hour.
3. Le mouvement réaliste dans la seconde moitiè du XIXe siècle. Two hours.
4. Histoire de la langue depuis le XVIe siècle. One hour.
5. Histoire de la Comédie en France. Two hours.
6. Exercices pratiques. One hour.

Candidates taking French only will take all the above courses; those taking French as a major along with another subject as a minor will omit 1 and either 2 or 4; those taking French as a minor will take either 3 or 5 and one of the one-hour courses.

Candidates who have not taken French Philology in their undergraduate course must take it as part of their M.A. course, except when French is taken as a minor. For further M.A. requirements, see page 299.

B.—German.

1. German, Beginners' Course.

4 hrs. sess.; Mon., Tu., Th., Fri., at 2 (Women, R.V.C.);
Mon., Tu., Th., Fri., at 4 (Men)....Asst. Professor Lambert.

Texts:—(a) For B.A. students, Van der Smissen und Fraser, High School German Grammar (Copp, Clark Co.); Guerber, Marchen und Erzahlungen, vol. I (Heath); Baker, German Stories (Holt).

(b) For B.Sc. students, Bierwirth, Beginner's German (Holt); Guerber Marchen und Erzahlungen, vol. I (Heath); German Science Reader (Heath).

Students intending to proceed to course 4 will be required to take a supplementary examination in September (for which no fee will be charged) covering the rest of the grammar and the following texts:—Riehl, Die vierzehn Nothelfer (A. B. Co.); Moser, Der Biblio-

thekar (Heath); Schrakamp, Ernstes und Heiteres (A. B. Co.). Arrangements will be made by which students will be enabled to do this work by correspondence. This examination will take place at the time of the regular supplemental examinations.

2. German Language.

4 hrs. sess.; Mon., Tu., Th., Fri., at 2 (Women, R.V.C.); Mon., Tu., Th., Fri., at 4 (Men)....Asst. Professor Lambert.

Texts:—Van der Smissen und Fraser, High School German Grammar (Copp, Clark Co.); Nichols, Two German Tales (Holt); Freytag, Die Journalisten (Ginn); Fulda, Talisman (Holt); Collmann, Easy German Poetry (Ginn, Ed. 1913); Horning, German Composition.

3. German Science Reading Course.

A course in reading Science German is given for students who have matriculated in this language or have taken it in the first year. The text will be chosen to meet the requirements of the class.

4. German Language.

4 hrs. sess.; Mon., Tu., Wed., Fri., at 11 (Women, R.V.C.); Fri., at 9, Tues., at 10, Thurs., at 11; Wed., at 12 (Men).... Assistant Professor Lambert.

Texts:—Horning, German Composition; Schiller, Jungfrau von Orleans (Holt); Scheffel, Trompeter von Säkkinzen (Heath); Goethe, Egmont (Ginn); Keller, Bilder aus der Deutchen Literatur (American Book Co., edition 1905).

5. German Literature (Nineteenth Century).

Prerequisite:—1 or 2, and 4.

4 hrs. sess.; Mon., Wed., Th., Fri., at 10.....Professor Walter. (Given in 1920-21.)

Texts:—Kleist, Prinz Friedrich von Homburg (Ginn); Grillparzer, Sappho (Ginn); Hebbel, Agnes Bernauer; Heine, Prose (Oxford Univ. Press); Heine, Verse; Hauptmann, Die versunkene Glocke; Keller, Sieben Legenden; History of Literature, Nineteenth Century (Kluge).

Prose Composition:—Wiehr, German Composition (Oxford).

6. German Literature (Eighteenth Century).

Prerequisite:—1 or 2, and 4.

4 hrs. sess.; Mon., Wed., Th., Fri., at 10.....Professor Walter. (Given in 1921-22.)

Texts:—Lessing, Emilia Galotti (Ginn); Lessing, Nathan (A. B. Co.); Goethe, Iphigenie (Pitt Press); Schiller, Wallenstein's Tod; Collins, Selections from German Classics (Oxford Univ. Press); Kluge, Geschichte der deutschen Literatur. *Prose Composition*:—

Wiehr, Prose Composition (Oxford University Press).

N.B.—In order to be admitted to courses 5 and 6 a student must know German well enough to take lectures delivered in German and express himself in German with some degree of fluency and correctness.

7. Geschichte des deutschen Trauerspiels.

3 hrs. sess.....Professor Walter.
(Given in 1921-22.)

8. German Composition.

1 hr. sess.....Professor Walter.

Text:—Nicholson and Brenman, Passages for Translation into French and German (Oxford Univ. Press).

9. Mediaeval German Literature and Philology.

3 hrs. sess.....Assistant Professor Lambert.
(Given in 1920-21.)

Texts:—Bachmann, Mittelhochdeutsches Lesebuch (Fæsi and Beer, Zurich); Behaghel, Die deutsche Sprache.

10. Entwicklung der deutschen Lyrik.

3 hrs. sess.....Professor Walter.
(Given in 1920-21.)

HONOUR COURSE.

Prerequisites:—1 or 2, and 4.

Third and Fourth Years:—5, 6, 7, 8, 9, 10.

The German language alone is used in class instruction, and, in order to obtain honours, candidates must be able to speak German fluently.

GRADUATE COURSE.

The following resident Graduate Courses will be offered in 1920-21:—

M.A. COURSES.

1. Comparative Literature (see English section, course 16). Two hours weekly.
2. Goethe. Two hours.
3. Geschichte des deutschen Romans. Two hours.
4. Grillparzer's Dramen. One hour.
5. Praktische Ubungen. One hour.

Candidates taking German only will take all the above courses; those taking German as a major along with another subject as a minor will omit 1 and either 2 or 5; those taking German as a minor will take either 3 or 4 and one of the one-hour courses.

Candidates who have not taken German Philology in their undergraduate course must take it as part of their M.A. course, except when German is taken as a minor. For further M.A. requirements, see page 299.

DEPARTMENT OF ORIENTAL (SEMITIC) LANGUAGES AND LITERATURE.

PROFESSORS:— { C. A. BRODIE BROCKWELL.
A. R. GORDON.

SESSIONAL LECTURER IN HELLENISTIC JEWISH LITERATURE:—
G. ABBOTT-SMITH.

1. **Elementary Class, Hebrew Composition and Grammar.** (Not qualifying for a degree.)
2 hrs. sess.....

2. **Hebrew Grammar, Composition and Selected Biblical Texts.**
4 hrs. sess.; Mon., Tu., Th., Fri., at 5....Professor Brockwell.

3. **Hebrew Readings in the Old Testament.**
4 hrs. sess.; Mon., Tu., Wed., Fri., at 11....Professor Brockwell.
Prerequisite:—2.

4. **Literature of the Jewish Hellenists:—Prophetic (Greek) Texts.**
2 hrs. sess.....Dr. Abbott-Smith.
Prerequisite:—2.

5. **Literature of the Jewish Hellenists:—Prophetic (Hebrew) Texts.**
2 hrs. sess.....Professor A. R. Gordon.
Prerequisite:—2.

6. **Arabic and Aramaic.**
4 hrs. sess.....Professor Brockwell.

7. **Biblical and Post-Biblical Hebrew Texts.**
4 hrs. sess.....Professor Brockwell.

8. **Hebrew Texts.**
4 hrs. sess.....Professors Brockwell and Gordon.

9. **History of the Greek and Roman Periods.**
1 hr. sess.....Professor A. R. Gordon.

10. **Arabic and Aramaic, or Phoenician, or Ethiopic, or Transliterated Assyrian Texts.**
3 hrs. sess.....Professor Brockwell.

Semitic Archaeology, or the History of Jewish Literature (from the close of the Old Testament Canon to A.D. 1500), or The Comparative Philology of the Semitic Languages, or Semitic Myths and Social Institutions.
3 hrs. sess.....Professor Brockwell.

HONOUR COURSE IN SEMITICS.

Prerequisite:—2.
Third Year:—8, 9, 10, 11.
Fourth Year:—The same, continued.

DEPARTMENT OF PHILOSOPHY.

PROFESSOR:—W. CALDWELL.
ASSOCIATE PROFESSOR OF LOGIC AND METAPHYSICS:—
J. W. A. HICKSON.
ASSISTANT PROFESSOR OF PSYCHOLOGY:—WILLIAM D. TAIT.

1. **Elementary Psychology.**
2 hrs. sess.; Mon., Wed., at 10.....Asst. Professor Tait.
Text-book:—Human Psychology by H. C. Warren (Houghton, Mifflin & Co.).

2. **Logic:—An Introductory Course.**
2 hrs. sess.; Th., Fri., at 10.....Professor Hickson.
Text-book:—Mellone, Introductory Text-book of Logic (6th ed.).

3. **Introduction to Philosophy.**
2 hrs. sess.; Tu. 10, Th. 11.....Professor Caldwell.

4. **Moral Philosophy.**
4 hrs. sess.; Mon., Tu., Th., Fri., at 12.....Professor Caldwell.

5. **Advanced Moral Philosophy.**
2 hrs. sess.; Mon., Tu., at 4.....Professor Caldwell.

6. **Greek Philosophy.**
2 hrs. sess.; Mon., Tu., at 5.....Professor Caldwell.

7. **History of Modern Philosophy.**
4 hrs. sess.
1st term: From the Renaissance to Kant.....Professor Hickson.
2nd term: From Kant to the Present Time..Professor Caldwell.

8. **The Theory of Scientific Method.**
2 hrs. sess.; Wed., 12, Fri., 12.....Professor Hickson.

9. **Theory of Knowledge and Metaphysics.**
4 hrs. sess.....Professor Hickson.

10. **Main Philosophical Tendencies since 1860.**
2 hrs. sess.....Professor Hickson.
Prerequisite:—7. (Given in 1921-22.)

11. **Experimental Psychology.**
4 hrs. sess.....Assistant Professor Tait.

12. **Social Psychology.**
2 hrs. sess.....Assistant Professor Tait.

13. **Problems of Comparative Psychology in relation to the Theory of Knowledge:—Discussions and Lectures.**
2 hrs. sess.....Professor Hickson.
Prerequisite:—1.

14. **Philosophy of Religion.**
2 hrs. sess.....Professor Caldwell.

15. **Advanced Psychology.**
2 hrs. sess.....Assistant Professor Tait.

16. **Abnormal Psychology.**
2 hrs. sess.....Assistant Professor Tait.

17. **Educational Psychology.**
2 hrs. sess (1921-22).....Assistant Professor Tait.

HONOUR COURSE.

Prerequisites:—1, 2.

Third Year:—Any three full courses from 4 to 13 inclusive.

Fourth Year:—Any three full courses from 4 to 13 other than those already selected. In addition, a course in any of the following subjects:—education, history, economics, English literature, physics, physiology, zoology—is required in each of the third and fourth years.

The Philosophy requirements for honours in Philosophy and English, and Philosophy and German, are eight hours selected from 4 to 20 in each of the third and fourth years.

COURSES PRIMARILY FOR GRADUATES.

18. **Psychological Laboratory.**
Subject to be announced.....Assistant Professor Tait.

19. **Cosmological Problems of the Present Time; Lectures, Papers, and Discussions.**
2 hrs. sess.....Professor Hickson.

20. **Ethical Seminary.**
2 hrs. sess.....Professor Caldwell.
Recent and Contemporary Ethical Theories.

DEPARTMENT OF PHYSICS.

PROFESSOR:—A. S. EVE.

ASSOCIATE PROFESSORS:—L. V. KING. J. A. GRAY. A. N. SHAW.

ASSISTANT PROFESSORS:—N. E. WHEELER. H. E. REILLEY.

DEMONSTRATORS:—A. A. SCOTT. VIOLET HENRY. G. H. HENDERSON. R. J. CLARK. L. A. SMITH. H. L. NICHOLS.

1. **General Course.**
2 hrs. sess.; Tu., Fr., at 2 (Men); Tu., Fr., at 3 (Women); 2 hrs. lab. .....Professor Eve.
Text-book:—Kimball's College Physics.

2. **Heat, Sound and Light.**
2 hrs. sess.; Tu., Th., at 11; 2 hrs. lab.....Professor Shaw.
Text-book:—Duncan and Starling's Heat, Light and Sound (Macmillan's).

3. **Electricity and Magnetism.**
2 hrs. sess.; Mon., Fri., at 10; 2 hrs. lab.....Professor Gray.
Text-book:—Duncan and Starling's Electricity and Magnetism; Laboratory manuscripts (Renouf Publishing Co.).

4. **Dynamics, Statics and Hydrostatics.**
2 hrs. sess.....Professor King.

5. **Properties of Matter.***
2 hrs. sess.....Assistant Professor Wheeler.

6. **Statics, Dynamics of a Particle and Rigid Dynamics.**
2 hrs. sess.....Professor King.

7. **Vector Analysis.**
2 hrs. 1st term.....Professor Eve.

8. **Advanced Statics, Dynamics, Hydrodynamics and Sound.**
2 hrs. sess.....Professor King.

9. **Electrical Measurements.**
2 hrs. sess.; Wed., at 10; 5 hrs. lab.....Professor King.

10. **Radioactivity.***
2 hrs., 2nd term.....Professor Eve.

11. **Physical Optics and Electromagnetic Theory.***
2 hrs. sess.....Professor Gray.

12. **Molecular Physics.**
2 hrs. sess.....Professor Shaw.

13. **Theory of Heat.***
1 hr. sess.....Professor Shaw.

14. **Kinetic Theory of Matter, and Electron Theory.**
2 hrs. sess.....Professor King.

15. **Advanced Mathematical Physics.**
2 hrs. sess.....Professor King.

16. **Quantum Theory and Relativity.**
1 hr. sess.....Professor Eve.

17. **Advanced Electricity and Magnetism.**
2 hrs. sess.....Professor King.

HONOUR COURSE IN MATHEMATICS AND PHYSICS.

Prerequisites:—Mathematics 2; Physics 1 (or 2).
Second Year:—Mathematics 4, 5; Physics 4; Chemistry 1.
Third Year:—Mathematics 7, 12; Physics 5, 6, 9, 12, 13.
Fourth Year:—Mathematics 8, 9; Physics 7, 8, 10, 11, 14.

GRADUATE COURSES.

Physics 15, 16, 17; thesis, etc.

DEPARTMENT OF ZOOLOGY.

PROFESSOR:—ARTHUR WILLEY.
LECTURERS:— { J. STAFFORD. / F. S. JACKSON.

1. **Comparative Anatomy.†**
As in first year Medicine.

2. **Elementary Zoology.***
2 hrs., 1st term; Mon. and Wed., at 10.....Professor Willey.
4 hrs. lab.; Sat., 9 to 1.

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† With laboratory experiments.
* Zoology 2 will not exempt from Zoology 1.

3. **Zoology of Invertebrata.†**
2 hrs. sess. ..... Dr. J. Stafford
4 hrs. lab.

4. **Historical Zoology.**
1 hr. sess. ..... Professor Willey.

5. **Zoology of Vertebrata.**
2 hrs. sess. ..... Professor Willey.
4 hrs. lab.

6. **Comparative Embryology.**
2 hrs., 2nd term. ..... Professor Willey.
4 hrs. lab.

HONOUR COURSE IN BIOLOGY.

Prerequisites:—Botany 2, Chemistry 1, Zoology 2.
Third Year:—Botany 4 and 6; Zoology 3 and 4.
Fourth Year:—Botany 7 and 8; Zoology 5 and 6.

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† This is a prerequisite for students who may hereafter wish to undertake zoological work at the Marine Laboratories under the Biological Board of Canada.

TIME TABLES OF LECTURES, 1920-21.

Faculty of Arts.

Hour.	First Year Men.	First Year Women.	Second Year.	Third & Fourth Years.
Lectures at 9, omitting Friday.	Mathematics, 1.	English, 1 and 2. (Comp., Tues., Lit., Mon. and Wed.) Hist., 1 (Fri.).	French, 3. German, 4—Men (Fri.)	Geology, 1. (Mon., Wed., Fri.) Greek, 7 and 8. English, 5 (Tu., Th.). Economics, 12 (Tu., W.) History, 2. Geology, 5 (Tu., Th.).
Lectures at 10, omitting Tuesday.	German 1 (b). Latin, 1. Hist., 1(Tues.)	French, 1.	Botany, 2 (M., W.). Zoology, 2 (M., W.). Logic, 2 and Psychol., 1. German, 4—Men (Tu.)	English, 7 (Tu., Th.). English 16 and 17 (M.F.). Economics, 4, 6, 8, 11. Latin, 3 and 4. History, 3. Mathematics, 4. German, 5 & 6. Botany, 4. Physics, 3 (Mon., Fri.).
Lectures at 11, omitting Thursday.	French, 1. Hist., 1 (Thur.)	Latin, 1.	Econ., 1 (M., Fri.). History, 2 (T., W.). German, 4—Women. German, 4—Men (Th.) Mathematics, 3. (M., W., Fri.)	English, 6 (Tu., Th.). Greek, 5 and 6. Economics, 2. Hebrew, 2. English, 12 (Wed., Th.); 10 (Mon., Fri.). Physics, 2 (Tu., Th.).
Lectures at 12, omitting Wednesday.	English, 1 & 2. (Comp., Mon., Lit., Tues, & Thurs.)	Mathematics, 1. Hist., 1(Wed.).	Latin, 2. German, 4—Men (W.).	English, 11 (M., W.). English, 20 (Tu., Th.). Philosophy, 4. French, 6 & 7.
Lectures at 2, omitting Wednesday.	Physics, 1. (Tu. & Fri.).	German, 1 & 2.	Chemistry, 1 (Mon., Tues. & Thurs.).	Geology, 2 (Th., Fri.). Political Science, 3. Zoology, 3 (Tu. & Fri.).
Lectures at 3, omitting Wednesday.	Physics, 1 (B. Sc.) (Tu. & Fri.) Greek, 1 & 2.	Physics, 1. (Tues. & Fri.) Physical Education. (Mon. & Thurs.)	English Lit., 4 (Mon., Tues. and Thurs.). English Comp., 3 (Fri.).	Economics, 5, 7, 9, 10. Chemistry, 2. Psychology, 11. Mechanics (Maths., 6). (Mon. & Thurs.) Astronomy (Math. 12).
Lectures at 4. omitting Wednesday.	German, 1 (a) & 2.	Greek, 1 & 2.	Greek, 3 & 4.	Philosophy, 5 (M., Tu.) Philosophy, 9. English, 9. (Tues., & Fri.) English, 5. (Mon. & Thurs.) Comp. Philology, 5. (Tues. & Thurs.)
Lectures at 5, omitting Wednesday.			Hebrew, 1.	Education, 1 & 2. Philosophy, 6 (M., Tu.).

Laboratory periods and hours for Honour classes will be arranged at the commencement of the session.

The hours for Physical Education for women students of the second, third and fourth year will be arranged by the department.

EXAMINATION TIME TABLES—Faculty of Arts.

Scholarship and Supplemental Examinations, September, 1920.

DATE.	Hour.	Supp. to First Year Sessional.	Second Year Scholarships.	Supp. to Second Year Sessional.	Scholarships (Third Year).	Supp. to Third Year Sessional.*
Monday . 20	9 00	English, 1.	English Literature (Shakspere); History.	English, 3.	English Literature (Shakspere and Milton).	English, 5.
	2 00	English, 2.	English Literature (Macaulay and Scott).	English, 4.	English Literature (Ruskin and Arnold).	English 9 & 22.
Tuesday 21	9 00	Latin, 1 (Books).	Latin Books.	Latin, 2 (Books).	Latin Texts.	History, 9.
	2 00	Latin, 1 (Composition, Sight Translation and Roman History).	Latin Composition, Sight Translation and Roman History.	Latin, 2 (Composition and Sight Translation).	Latin Composition, and Sight, and Roman History.	History, 7.
Wednesday . . . 22	9 00	French, 1, 2.	French Texts.	French, 3, 4.	French Books.	French, 5.
	2 00	History, 1.	German Texts.	Physics, 2. Semitics, 1.	French Composition and Sight.	Philosophy, 14.
Thursday . . 23	9 00	Maths. 1 (Algebra).	Geometry (Major); Geometry and Trigonometry (Minor).	Maths. 3 (Algebra).	Animal Biology. Analytical Geometry and Trigonometry.	Maths. 4. Education, 2
	2 00	Maths. 1 (Geometry).	French Composition and Sight.	Philosophy, 1 & 3.	German Books. Plant Biology. Logic.	Education, 1
Friday . . . 24	9 00	Maths. 1 (Trigonometry).	Greek Books. Algebra (Minor), Algebra and Trigonometry (Major).	Greek, 3 & 4 (Books) German, 4. Philosophy, 2.	Greek Texts. Physics. Psychology.	History, 3.
	2 00	Physics, 1.	Greek Composition, Sight Translation, and History.	Greek, 3 & 4 (Composition and Sight Translation). Geology, 1. Zoology, 2 & 6.	Chemistry, Greek Composition, Sight Translation, and History. Economics.	Chemistry, 2, 6.
Saturday . . 25	9 00	Greek, 1 & 2 (Books). German (1, (a), 1, (b), 2, 3.)	German Composition and Sight.	Maths., 3 (Conics and Solid Geometry). Botany, 2.	Infinitesimal Calculus, German Comp. and Sight.	Chemistry, 9. Economics, 2.
	2 00	Greek, 1 & 2 (Composition and Sight).	Physics.	Chemistry, 1. History, 2. Economics, 1.	Economics, History and English Composition. Philosophy (Berkeley).	Economics, 3. Physics, 3.

*Periods for other subjects to be arranged at the time of the Examination.

EXAMINATION TIME TABLES.

Faculty of Arts.

First Term Examinations, 1921.

	First Year	Second Year
Tuesday, January 18, 1921—		
9-12 A.M.	Geometry, 1.	French, 3. Zoology, 2.
2-5 P.M.	Greek, 1 & 2. Physics, 1 (B.Sc.).	English 4.
Wednesday, January 19—		
9-12 A.M.	English, 1 & 2.	Latin, 2.
2-5 P.M.	Latin, 1.	Philosophy, 1.
Thursday, January 20—		
9-12 A.M.	German, 1 & 2.	Greek, 3 & 4.
2-5 P.M.	History, 1.	German, 4.
Friday, January 21—		
9-12 A.M.	French, 1.	Economics, 1. Mathematics, 3.
2-5 P.M.	Physics, 1 (B.A.).	Hebrew, 1. Chemistry, 1, 3 (a).
Saturday, January 22—		
9-12 A.M.	Trigonometry, 1.	History, 2.
2-5 P.M.		Philosophy, 2 & 3.

EXAMINATION TIME TABLES.

Faculty of Arts.

Sessional Examinations, 1921.

Morning examinations commence at 9; afternoon examinations at 2.

(Numbers do NOT indicate years, but the number of the course in the Department.)

Date	Forenoon.	Afternoon.
Tuesday, April 19.....	Latin, 5. Philosophy, 2 & 3. Maths., 7, (Calculus). Physics (I Yr. Com.). Educ. Psychology. Economics (II Yr. Com.). Maths. (III Yr. Com.).	Latin, 5. History, 5. Chemistry, 3 (a & b). Zoology, 4.
Wednesday, April 20.....	Accountancy (I, II & III Com.). Physics, 1. Hebrew, 1. Education, 1. English, 15.	Hebrew, 1. Maths., 5. Education, 2.
Thursday, April 21.....	Maths., 1 (Alg.). Maths., 2 (Geom.). French, 3 (a), 4 & 5. Geology, 1 & 10. German, 7. History, 9. Chemistry, 5. Zoology, 5. Philosophy, 8 & 12.	History (I Yr. Com.). History, 1. French, 3 (b) Advanced & 5. Geology, 1. History, 9.
Friday, April 22.....	Econ.Geo.(I & IICom.) Latin, 1 (Authors) & 3. Philosophy, 1. Economics, 11. English, 16 & III Com. German, 6. Physics, 3. Hebrew, 6. Maths., 6.	Physics, 2. Latin, 1 (Prose etc.) & 3. Botany, 2. English, 7. German, 6. Chemistry, 6. Indus. Orgn. (III Yr. Com.).
Saturday, April 23.....	French, 1 (a) & 2. Economics, 1, 2 & III Com. Maths., 3 (Alg.). English (II Com.) & 10. Physics, 15. Botany, 5. Chemistry, 15. Hebrew, 5.	French, 1(b) & Advanced. History, 2. Economics, 2. English, 12. Hebrew, 5.

SESSIONAL EXAMINATIONS—*Continued.*

DATE.	FORENOON.	AFTERNOON.
Monday, April 25	English, 1 & I. Com. Latin, 2 (Authors). Maths. (II Com.). Philosophy, 4 & 7. French, 7. English, 20. Spanish (III Com.). Physics, 12.	History of Commerce (II Yr.). Latin, 2 (Prose, etc.). Philosophy, 4 & 7. French, 7. Greek, 5. Chemistry, 2. English, 2 & 11. Investments (III Com.).
Tuesday, April 26	Chemistry, 1 & 13. Economics, 3. English, 17. Econ. of Transport (III Com.).	Maths., 1 (Trig.). Maths., 2 (Alg.). Economics, 3. English, 13. Geology, 2. Zoology, 3.
Wednesday, April 27	Greek, 1. English, 4 Economics, 9. Physics, 5,	Commercial Law (II Com.). Greek, 1. English, 3 & 19. Chemistry, 7.
Thursday, April 28	Business Organiz.(II Com) German, 1 & 2. Greek, 3 & 4. English, 9. Chemistry, 8.	German, 1, 2 & 3. Greek, 3, & 4. Greek, 5. English, 5.
Friday, April 29	German, 4. Philosophy, 6. Chemistry, 10. Economics, 12. French, 8.	German, 4. English, 6.
Saturday, April 30	Geology, 5. Chemistry, 9. Maths., 8. Greek, 7.	Geology, 4. Greek, 7.
Monday, May 2	Maths. 4 (Calculus). History, 7 & 8. Physics, 7. English, 14. Botany, 4 & 6.	Maths., 4 (Conics). History. 10. Maths., 7 (Anal. Geom.). Botany, 4 & 6.

THE TRAINING OF TEACHERS.

THE FIRST-CLASS ACADEMY DIPLOMA.

In order to qualify for this, the highest teaching diploma of the province, students are required to take, during the last two years of their undergraduate course, courses 1 and 2 in the Department of Education; and (unless they hold the Model Diploma or show an equivalent in successful teaching experience) to do the specified fifty half days of practice and observation, either before or after graduation (see page 134). They are also required to take in the fourth year a course on the principles and practice of physical education in relation to schoolwork. This entitles them, if successful, to the Strathcona B. Certificate. Full particulars on page 294. Miss Cartwright, Dr. Lamb.

School Art. A course of twenty lessons on the principles and practice of art in relation to schoolwork, comprising: brushwork, drawing, blackboard work, elements of design. Prof. Armstrong. Sat., 9-10.30 or 11-12.30.

ELEMENTARY, MODEL AND KINDERGARTEN DIPLOMAS.

The training for these diplomas is given at Macdonald College. (See Macdonald College Announcement.)

COURSES FOR TEACHERS OF SPECIAL SUBJECTS.

(Given under the Teachers' Training Committee.)

French. A summer school for teachers of French leading to a Specialist Diploma recognized by the Council of Public Instruction.

School Art. See above.

(Conducted by the School for Teachers, Macdonald College.)

Kindergarten Assistants. A two-session course leading to a certificate, recognized by the Council of Public Instruction, and accepted for entrance to the Kindergarten Class of Macdonald College.

Particulars of the above courses, which are published separately, may be obtained on application to the Registrar.

(Given under the Department of Physical Education.)

Physical Education. A two-years' course leading to a Diploma for Teachers in Physical Education recognized by the Council of Public Instruction. See page 296.

SCHOOL OF COMMERCIAL STUDIES.

(OPEN TO BOTH MEN AND WOMEN.)

STAFF OF INSTRUCTION.

DIRECTOR-SECRETARY:—MR. R. M. SUGARS.

ENGLISH	DR. MACMILLAN. ASST. PROFESSOR G. W. LATHAM.
MATHEMATICS	MR. B. K. SANDWELL. MR. R. M. SUGARS. MR. HARVEY-JELLIE.
POLITICAL ECONOMY	MR. B. K. SANDWELL.
HISTORY OF COMMERCE	MR. B. K. SANDWELL.
FRENCH	ASSISTANT PROFESSOR MORIN. DR. VILLARD.
GERMAN	ASSISTANT PROF. LAMBERT.
COMMERCIAL LAW	MR. S. DALE-HARRIS.
ACCOUNTANCY	MR. R. M. SUGARS.
SPANISH	
INDUSTRIAL ORGANIZATION	MR. B. K. SANDWELL.
BUSINESS ORGANIZATION	MR. B. K. SANDWELL.
CHEMISTRY	PROFESSOR EVANS.
INDUSTRIAL CHEMISTRY	SPECIAL LECTURERS.
ECONOMIC GEOGRAPHY	MR. B. K. SANDWELL.
BANKING	MR. WELDON.
INSURANCE	MR. MCCULLOCH.
ECONOMICS OF TRANSPORT	MR. B. K. SANDWELL.

The School of Commercial Studies offers:—

1. A systematic course of study, embracing the principal commercial sciences, and designed, with due modifications in each case, to prepare students for different business careers and for the profession of Chartered Accountant.

The course extends over three years, and students who successfully complete it will be granted the Degree of Bachelor of Commerce (B. Com.).

2. Extension Classes, open to anyone—whether engaged in business or not—whose general education and credentials are considered satisfactory to the University.

COURSE FOR THE DEGREE OF BACHELOR OF COMMERCE.

Candidates for entrance must qualify by passing the following examination:—

1. **English** (two papers).
2. **History** (one paper).
3. **French or Spanish** (two papers).
4. Elementary Mathematics [**Algebra** (one paper) and **Geometry** (one paper)].
5. **Latin** *or* **German** (two papers) *or* **Physics** (one paper).
6. One of the following: **Botany, Chemistry, Geography**—including **Physiography**—**Physics**—if not already chosen—(one paper), **Latin**—if not already chosen—**Greek** (two papers).

For particulars of the work in each subject, see under "Junior Matriculation."

N.B.—The Advanced Mathematics and Second Foreign Language will not be required until the 1921-22 session.

The Course of Instruction is as follows:

FIRST YEAR.

1. **English** (4 hours).
   (a) English Literature.
   (b) English Composition.
2. **Mathematics** (4 hours).
3. **French or Spanish.**
4. **Economic Geography** (1 hour).
5. **Accountancy** (3 hours).
6. **Political Economy** (2 hours).
7. **Physics** (2 hours).

SECOND YEAR.

1. **English** (2 hours).
2. **Mathematics** (4 hours).
   (Commercial and Actuarial Mathematics.)
3. **French or Spanish.**
4. **Accountancy** (3 hours).
5. **Chemistry and Industrial Chemistry** (2 hours).
6. **Commercial Law** (2 hours).

Also one of the following two groups of subjects (as may be assigned), to be taken in conjunction with the Third Year. These groups are given alternately, so that a student will take in the third year what he does not take in the second.

GROUP 1.

1. **Industrial Organization** (1 hour).
2. **Economic Geography** (2 hours).
3. **Economics** (2 hours).
   (Distribution, Labour Problems, and Industrial Legislation.)

GROUP 2.

1. **Business Organization and Combination** (1 hour).
2. **History of Commerce** (2 hours).
3. **Economics** (2 hours).
   (Money, Exchange, Banking, Investments.)

THIRD YEAR.

(*a*) *Obligatory Subjects.*

1. **English** (2 hours).
   (The study of trade journals and trade reports will enter into this course.)
2. **French or Spanish.**
3. **Fire and Marine Insurance** (1 hour).
4. **Banking and Banking Practice** (1 hour).
5. One of the two groups of subjects (given under "Second Year") and which will be taken in conjunction with Second Year students, the groups alternating or rotating, so that any student will take in the Third Year what he did not take in the Second (5 hours).
   (b) Additional groups, one or other of which must be taken.

1. ACCOUNTANCY.

(a) **Theoretical Work, Problems and Exercises in Accountancy and Auditing** (3 hours).
(b) **Practical Work in Accountancy and Auditing** (2 hours).

2. TRADE AND COMMERCE.

(a) 1. **A second modern foreign language** (to be taken during at least two years, and to be preceded where necessary by a preparatory class),

or

2. **Specially selected courses in Economics.**

(b) **Specially selected courses in Law.**

N.B.—A number of visits to factories will be arranged for each calendar year. These visits will be obligatory for Third Year students.

To obtain the diploma of **Licentiate in Accountancy,** which carries with it right of entrance into the Association of Accountants in Montreal (Chartered Accountants), or into the Institute of Accountants and Auditors of the Province of Quebec, the student must satisfy the following conditions:

(a) He must pass all the examinations required for, and leading up to, the Degree of Bachelor of Commerce.
(b) He must pursue the course of studies prescribed in this programme for Accountancy students.
(c) He must comply with all ordinances regulating the practical work to be done by students during the vacation.
(d) He must spend at least one year, subsequent to his obtaining the Degree of Bachelor of Commerce, in the office of a practising accountant.
(e) He must then pass successfully a Final Examination in Accountancy and Auditing before a board of five examiners, composed as follows: the Director-Secretary of the School of Commercial Studies, two Professors of McGill University, a member of the Association of Accountants in Montreal, and a member of the Institute of Accountants and Auditors of the Province of Quebec; or before a board composed of four examiners, in case either of the Associations mentioned fails, after due notice, to nominate its delegate; or before a board composed of three examiners, in case each of the Associations mentioned fails to nominate its delegate.

POLICY OF THE SCHOOL.

In all subjects the work will be, as far as possible, of a practical nature. Thus the English courses will include a drilling in letter-writing, precis-writing, and the preparation of reports. The French, German and Spanish courses will aim at imparting facility in speaking as well as in writing, and will consider the special phraseology employed in business correspondence. The mathematical and scientific courses will deal in the fullest manner with applications to industry, commerce, and finance. In the lectures on History, Political Economy, and Commercial Law, the aim will be in the first case to trace the growth and development of modern ideas and institutions; next, to impart a knowledge of those general economic principles which are necessary to a full understanding of other subjects; in the third instance, to give the student such an acquaintance with the law as may be of real service in everyday business transactions. Finally, in Accountancy, the conditions and methods imposed by the increasing complexity of commercial, industrial and financial organizations will be considered in detail.

At the same time it will be among the chief concerns of the School of Commerce to accustom the student to the exercise of independent thought on all subjects, and particularly on those related to industry, commerce, and finance. To this end he will be expected from time to time to analyse his mental attitude towards each subject, to note the bearings of each on all other subjects, and to embody the results of his analysis in an essay or essays. These methods will compel him to call into play his independent judgment, and will thus assist in developing those qualities of adaptability, self-reliance, and resourcefulness that make for leadership.

FEE FOR COURSE.

The sessional fee is $150.00.

At the request of the students themselves, and by the authority of Corporation, an additional fee of $10.00 will be exacted for the support of the Literary Society, the Undergraduates' Society, the Canadian Club, the Union, the "McGill Daily," and Athletics.

COURSES OF LECTURES.

English.

The fundamental purpose of the course in English is to train students to deal with such problems of expression as arise in commercial life. Considerable attention will be given to business correspondence and other forms of commercial writing. The interests of students, however, are best served, even for these special purposes, by a more general training in English. These courses will therefore include practice in various kinds of writing, as well as some study of modern English literature. As far as possible the writing prescribed for students will be related to the work they are doing in other classes.

The following is a brief outline of the work:—

FIRST YEAR

(a) A course on English Literature from Chaucer to the present day.

(b) English Composition, including the study and analysis of representative works of modern English.

SECOND YEAR.

Continuation of work of the first year. Writing of reports; study of contracts and other commercial documents; essays dealing with the subject-matter of courses on Business Organization, Economics, History of Commerce.

THIRD YEAR.

In this year the student, while continuing the work begun in the first year and carried on into the second, will be further required to write a series of essays involving research work.

French.

The study of French will be first approached from the literary side, both in order to increase its value to the student as an element of culture and in order to afford a sufficient background for the commercial studies which are to come later. These commercial studies will begin in the second year and will comprise about half of the work done in that year. In the third year the work will be almost entirely of a commercial character.

The following is a synopsis of the work:—

FIRST YEAR.

The student will have a choice between:

(a) The Advanced Arts Course in French, as indicated on page 142; and

(b) The Ordinary Arts Course in French (see page 142), strengthened by tutorial class work.

SECOND YEAR.

In this year the work will be divided into two sections:—

I. A selected Arts course. (See page 142).

II. Work of a commercial nature, embracing:

Commercial Correspondence:—Letters of introduction, offers of services, inquiries, acceptance of offers, execution of orders, circulars, invoices and account sales; study of trade reports and commercial documents; study of contracts.—Bills of sale, mortgage deeds, bills of lading, charter-party, insurance contracts.

THIRD YEAR.

During this year one hour a week will be devoted to a study of modern French literature. The remaining 3 hours will be taken up with commercial work, which may be conveniently divided into:

(a) Commercial Correspondence, study of trade reports, etc., in continuation of work begun in the second year; and (b) Colloquial French.

(The text-book to be used for this part will be P. Clerget, Manuel d'économie commerciale.)

The students will be called upon to take part in discussions, which will follow addresses to be delivered by French speakers on commercial and industrial subjects. Visits, too, will be organized to French commercial and industrial establishments, and all explanations during these visits will be given in the French language.

Class instruction in the three years will be given in French.

Spanish.

The study of Spanish will extend through all three Commerce years. The programme of work will be announced at the beginning of the Session.

Mathematics.

FIRST YEAR.

In this year the work will be that prescribed for First Year Arts students and will afford a sound training in general mathematics.

SECOND YEAR.

The second year will be devoted to a study of Commercial and Actuarial Mathematics.

The subject-matter dealt with will embrace: Compound interest; annuities-certain; the amortization schedule; the valuation of bonds; the mortality table and problems involving the elements of mortality, such as life annuities and the various insurance benefits.

Accountancy.

The accountancy work has been carefully graduated and correlated, and is intended not merely to fulfil its part in a general scientific business training but also to prepare and assist those who purpose taking up accountancy as a profession.

No previous knowledge of bookkeeping is assumed or required; the subject is developed rapidly along the lines that prevail in practice

FIRST YEAR.

The following plan will give a good indication of the ground covered in this year:—

The principle of debit and credit; books of original record, how they should be kept, and how utilized; documents employed in connection with them; sales, purchases, consignments, and how to handle them; returns inwards and returns outwards; subsidiary ledgers, and controlling accounts to represent them in the general ledger; special forms of cash-book required to facilitate such control; notes and drafts, discounting and renewal of notes, and the proper methods of treating these operations in the accounts; single entry, how to change

to double entry, and vice versa; distinction between revenue and capital expenditure; income statement and balance sheet; single proprietorships and partnerships.

The student will be required to sift and classify his detail, write up all the books of record and account mentioned, and focus results of the various transactions or operations into the final statements.

SECOND YEAR.

The subject matter for this year will be as follows:—

Special Problems that occur in connection with Partnerships.—The deed of partnership; rights of partners; effects of dissolution; methods of distributing profits; the bringing in of other partners; goodwill; transformation of a firm into a corporation; Departmental Accounts; Organization and records required; sectional balancing of ledgers and systems of internal check; analysis of expenses; distribution of expenses over departments; results in each department; comparison of these results with those shown in other periods; Manufacturing accounts; the elements of cost accounting; records to take care of purchases; the voucher system; depreciation and methods of providing for it; allowances and reserves; sinking funds.

THIRD YEAR.

The work of the third year will embrace:—

(a) Theory of the Balance Sheet; Its form and elements; valuation of these elements; comparative balance sheets; double account system of balance sheet; the income statement.

(b) Corporation Finance: Development of the corporation; status and interior organization of the corporation; how to incorporate; promotion and underwriting; stock and bond issues; temporary loans; initial operations; earnings and their disposition; secret reserves; betterments; surplus; control exercised by directors and majority stockholders; its abuse; consolidations; insolvency and receiverships; re-organizations; different bases of capitalization.

Problems connected with Stock and Bond Issues; bonus stock; treasury stock; watered stock; discount and premium on bond issues.

(c) Branches, Consolidations, Mergers; Accounts of head-office and of branches; consolidated statements and balance sheets; control of stock and bond issues; minority holdings; advances to subsidiaries; inter-company profit; capital assets and capital liabilities; initial surplus and goodwill.

(d) Cost Accounting: General considerations, the advantages of a cost system; the control of stores, purchasing and issuing, the running inventory; quality, remuneration, and control of labour; overhead expenses or "burden," methods of distributing it and their limita-

tions; waste and leakage in factories; idle time; calculation of machine rates; connection of costs records with general accounts.

(e) Accounting in Insurance Companies: Sources of income; expenditures to be incurred; registers and their uses; control of agents; reserve and its constitution; sources of profit; presentation of accounts; indications of strength or of weakness.

(f) Bank Accounts: Classification of operations; sources of entries in books; registers, diaries, ledgers; correlation of departments; cash journal or daily summary; published accounts.

(g) Municipal Accounts: Principles involved; current methods of reporting statistics; inadequacy of these methods; methods now recommended; sources of revenue; estimated revenue; appropriations; balances; various forms of municipal debt; municipal bonds; contract and order liabilities; sinking-funds; form of balance sheet recommended.

(h) Insolvency Accounts: Various schedules adopted; statement of affairs; realisation and deficiency account; deficiency statement.

(i) Trustees' Accounts: Executorships and administratorships; accrued claims; accrued expenses; corpus and income.

(j) Peculiarities in the form of accounts required in other undertakings will also be dealt with.

(k) Auditing: General principles applicable to all undertakings; special considerations applicable to particular concerns; laboratory practice in auditing.

Economics.

FIRST YEAR.

Elementary Economics, including analysis of the production, exchange, distribution and consumption of wealth.

SECOND OR THIRD YEAR.

(Given in 1920-21.)

Economics of Industry: Labour organization; industrial legislation; capital organization; international relations of labour and capital.

Industrial History: Development of the productive and distributive organization since the Industrial Revolution, with particular reference to problems connected with the relations of capital, labour and the State.

(Given in 1921-22.)

Economics of Finance: Money, exchange, banking, financial organization, credit, public finances, taxation.

Investment: Nature and variety of securities; government securities; municipal bonds; railroad securities; other corporation securities; mortgages; analysis of financial reports; the stock market; manage-

... of investments; rights and duties of the shareholder: default and foreclosure; reorganization.

Industrial Organization.

A course of lectures for the second and third years and dealing with the following subject-matter:

The launching of an industrial enterprise; the planning of a factory; departmental functions; the purchase and control of raw materials; labour, and its control; wage systems; welfare work; power and its transmission; the reorganization of a factory; the committee system; the location of industries; principles of management; types of management; departmental relations; standardization and equipment; standardised operations; written standard-practice instructions; adequate records; efficiency rewards.

The student will be required to write in idiomatic English a summary of each lecture.

Business Organization.

Origin and growth of business organization: Different methods in which business organization may be classified; useful inferences to be drawn from each method of classification; tests of efficiency in business organizations; social, economic and legal aspects of the following types of organization:—the Single Proprietorship; the Partnership; the Joint-stock Company; the Corporation; Agreements, Pools, Kartells; Simple Business Trusts; Combination Trusts; Community-of-interest Organizations; Securities-holding Organizations, Amalgamations, and Mergers.

Economic Geography.

FIRST YEAR.

General: The solar system; epochs in the history of the earth; divisions of the earth's surface into land and water; elements of geology; effects of sun's heat and rays; effects of altitude; effects of moisture, temperature and winds; ocean currents; mankind, races and characteristics; distribution of natural products; centres of population, and reasons for their development; chief commercial products; chief traffic channels and movements.

Canada: General configuration; climatic conditions; natural products—agriculture, animal products, products of the mine, of the sea, of rivers; population centres, their history and growth.

Canadian Production for Home Consumption: Location of important industries, with reasons; markets; means of distribution; cost of distribution; means of improvement and development of established industries; means of creating new industries.

SECOND AND THIRD YEARS.

(Given in 1920-21.)

Canadian Export Trade: Production for export; raw materials; manufactured products; foreign markets; means of creating new markets; nature of Canadian export markets—distance, climate, population, habits, credit, currency, government, tariffs, transport facilities, competition.

Canadian Import Trade: Products imported; countries of origin; purposes for which employed—direct consumption, further manufacture; reimportation of Canadian raw materials manufactured abroad.

Economics of Transport—Water Transport: Ocean shipping; services, rates and organization; shipping policies of leading commercial nations; internal water transport in North America.

Economics of Transport—Land Transport: Organization and service of railway traffic departments; systems of rates; car service, demurrage and claims; legislative regulation; motor transport; light railways.

History of Commerce.

SECOND AND THIRD YEARS.

(Given in 1921-22.)

Review of Commerce from the Dawn of Civilization to the Present Time, tracing the influence of physical, economic, political and technical factors in its development: Ancient and mediæval commerce; effect of revival of learning and discovery of America; commencement of modern commerce; the industrial revolution and recent commerce; special details in history of commerce of Canada and other British Dominions; lives of eminent leaders of commerce from the Fugger family to the present time.

Banking.

A course of special lectures on banking practice for Third Year students.

Insurance.

A course of special lectures on Insurance for Third Year students.

EXTENSION CLASSES.

The Extension Classes are open to the public, no examination test being required. They embrace (a) subjects that form a part of the curriculum, and (b) subjects that lie outside this curriculum. At the conclusion of each session written examinations will be held, and special certificates will be awarded to successful students.

Civil Service students and those preparing for the examinations held in connection with the Chartered Institute of Secretaries, Lon-

don, England, and with the Association of Accountants, Montreal, will find some of these classes especially useful. The programme of classes, as organized for 1920-21, together with the scale of fees, hours of lecture, etc., is as follows:—

(A) SUBJECTS THAT ENTER INTO THE DIPLOMA CURRICULUM.

Industrial Chemistry.

A course of 25 lectures, given after the Christmas holidays, on the important industrial processes involving chemistry. Only those processes which are represented in Canada will be discussed.

These lectures will be given by a number of chemists and engineers, each an expert in the subject on which he will lecture, and they will not necessitate, for their proper comprehension, any special knowledge of chemistry on the part of the student.

The planning and arrangement of the course has been placed in the hands of Mr. C. R. Hazen, M.Sc., of the firm of Milton Hersey & Co., and its scope and importance will be indicated by the outline, given below, of the work covered last session.
Wednesdays and Fridays, at 7.30 p.m. Fee for the course, $7.50.

Outline of course given in the session 1919-20:

1.—Water, its industrial uses and purification.....C. Hazen.
2.—Apparatus & Machinery used in the chemical industries..Dr.Bates.
3.—Solid Fuel Coal, ash and peats, powdered coal.....Dr. Porter.
4.—Liquid Fuel, crude petroleum and its products.....Dr. Porter.
5.—Sugar.....C. F. Bordarf.
6.—Lead and its alloys.....H. Roast.
7.—Iron.....G. W. Dauncey.
8.—Steel..... " "
9.—Fats and Oils, their origin, composition and uses as foods, etc.....Dr. R. F. Ruttan.
10.—Leather Tanning.....T. A. Faust.
11.—Dyes and Dyeing.....W. R. Allen.
12.—Ethyl Alcohol and Distilling.....G. M. Appell.
13.—Pulp.....J. N. Stephanson.
14.—Paper..... "
15.—Sulphuric, nitric acid and atmosphere.....Dr. R. McLean.
16.—Explosives..... "
17.—Starch Dextrine and Glucose.....Dr. R. F. Ruttan
18.—Portland Cement.....C. A. Tagge.
19.—Glass.....Percy Cole.
20.—Fertilizers and Glue.....C. Hazen.

21.—Paints and Colors.....Geo. M. Edwards.
22.—Varnishes..... " "
23.—Electro Metallurgy.....Dr. A. Stansfield.
24.—Coal Gas.....R. Kennedy.
25.—Ethyl Alcohol and its Products.....H. C. Shuck.
26.—Distillation of Wood and its Products.....C. Hazen.
27.—Textiles.....

Spanish.

A course of 50 lectures, intended for beginners.

With the aid of a suitable grammar and text-books, the student will be first taught to read in Spanish and to translate, with a view to his acquiring a correct pronunciation and a vocabulary. When the latter is deemed sufficient for the purpose, conversational practice will be introduced on current topics or on the subject-matter of the text-books.

It is hardly necessary to dwell on the advantages a knowledge of Spanish would possess for those who may be called upon to enter into business relations with Spanish America.

Mondays and Wednesdays, at 8.15 p.m. Fee for the course, $10.

Commercial Law.

A course of 25 lectures on the general principles of commercial law, specially designed to render service to the business man, banker, and accountant in their everyday transactions, and to help students who may be preparing for any of the examinations held in connection with the Association of Accountants in the Province of Quebec.

The subject is taken up from a practical point of view, with illustrations from actual cases, and the lectures deal with the questions that are likely to arise in the ordinary course of business.

The matter treated is as follows:—Persons and their capacity to contract—minors, married women, and other persons whose capacity is limited; the different kinds of property; the general principles of contracts; payment, and other methods in which debts are extinguished; the sale of goods; the lease and hire of property; the lease and hire of services; building contracts; carriers by land and water; agency; hypothec; pledge; contracts of guarantee; bills of exchange and other negotiable instruments; partnership; corporations; banking; rights of creditors over a debtor's property; privileges; insolvency law.

Each lecture lasts an hour and a half, and is complete in itself. The course is open to the public, both men and women.

Tuesdays, at 7.45 p.m. Fee for the course, $10.
Mr. Dale Harris.

(B) SUBJECTS OUTSIDE THE DIPLOMA CURRICULUM.

Political Economy.

A course of 25 lectures, especially intended to meet the needs of candidates studying for the final examination of the Association of Chartered Accountants, candidates for the Civil Service Examination, Division B, junior clerks in banks, and other persons interested in the subject from a practical standpoint.

The following subdivision will indicate broadly the subject-matter dealt with in these lectures:—

Wealth and its productions; the theory of value; the theory of monopoly price; money; index numbers and the rise in the cost of living; international trade and the foreign exchanges; free trade and protection; distribution—rent, wages, interest, profits and the theory of population; taxation and public finance; social legislation and socialism; the economic aspect of the war.

Thursdays, at 7.30 p.m. Fee for the course, $7.50.

Mr. B. K. Sandwell

Algebra.

A course of 25 lectures, which will be found especially useful by Civil Service candidates and by those who desire to pass the examination held in connection with the Association of Chartered Accountants. A number of lectures will be devoted to higher arithmetic problems.

Thursdays, at 8.30 p.m. Fee for the course, $7.50.

English Composition and Business Correspondence.

A course of 25 double lectures on the general principles of English Composition with especial reference to commercial correspondence, and other kinds of writing that are likely to be serviceable in business life. Such topics as mastery of English idioms, the increasing of one's vocabulary, sentence-structure, clearness and force will be discussed. There will be frequent opportunities for practice in writing.

Students in Accountancy offices and those intending to take up secretarial work should derive great benefit from this course.

Friday evenings, from 7.30 to 9.30. Fee for the course, $10.

Assistant Professor Latham.

Elementary Accountancy.

A series of lectures to be given three times a week, and dealing with the subject-matter outlined on page 168 for First Year Commerce students.

This course is intended for students preparing for the Intermediate Examination held in connection with the Association of

Accountants in Montreal, and will be found especially useful by anyone desirous of laying a solid groundwork in Accountancy.

Mondays, from 7.30 to 8.30 p.m., and Wednesdays from 7.30 to 9.30 p.m.

Fee for the course, $10.

Mr. Brimacombe.

Higher Accountancy.

A course of 20 lectures, dealing with the following subject-matter:—

Business Organization and Corporation Finance: The classification of business enterprises; the development of the corporation; different corporation securities, their nature and uses; premium and discount on bonds; the amortization of bonds; promotion; underwriting; bonus stock; treasury stock; watered stock; the stock market; extensions and reorganizations.

Theory of the Balance Sheet: Capital assets; fixed assets; intangible assets; permanent investments; investment of reserves; working assets; current assets; capital stock; fixed liabilities; bonds and mortgages; contingent liabilities; current liabilities; profits; surplus and reserves; secret reserves; the sinking fund; comparative balance sheets; the consolidated balance sheets.

Manufacturing Accounts: General considerations; the advantages of a costs system; the control of stores; purchasing and issuing, the running inventory; quality, remuneration, and control of labour; overhead expenses or "burden," methods of distributing it and their limitations; waste and leakage in factories; idle time; calculation of machine rates; connection of costs records with general accounts, special records required, the voucher system.

Accounts of Trusteeships and Executorships.

Accounts of Municipalities.

Wednesdays at 7.15 p.m. Fee for the course, $10.00.

English Literature.

A course of 20 lectures on Representative Modern Dramatists and their Work, from 1860 to the present day.

France—Dumas to Rostand; England—Jones, Pinero, Barker, Shaw, Galsworthy; Ireland—Yeats, Synge, Lady Gregory; Germany—Hauptmann, Sudermann; Norway—Björnson, Ibsen; Sweden—Strindberg; Italy—D'Annunzio; Spain—Echegaray.

Fridays, at 5 p.m. Fee for the course, $5.00.

Professor Lafleur.

French Literature.

A course of 20 lectures on contemporary French novelists. These lectures will deal first with the older writers whose reputation is established—Anatole France, Pierre Loti, Paul Bourget, René Bazin, Henri Bordeaux, and Maurice Barrès; then with the younger, innovating generation of novelists, such as André Gide, Marcel Proust, Jean Giraudoux, Georges Duhamel, Pierre Benoit, one of the principal objects of the course being to unfold the actual position occupied by the French novel.

(This course of lectures will be given in French.)

Thursdays at 5 p.m. Fee for the course, $5.

Professor du Roure.

Payment of Fees for Extension Courses.

Fees for Extension Classes should be paid at the Bursar's office before the session begins. For the convenience, however, of those who may be unable to get to the University during business hours, a person authorized to collect the fees will attend at the lecture hall about the beginning of the course. All fees must be paid by the evening of the third lecture, and in no case shall any fee be returned.

Time Table of Lectures for the B. Com. (3 year Course)

(Subject to revision at beginning of Session)

Hour	Yr.	Monday	Yr.	Tuesday	Yr.	Wednesday	Yr.	Thursday	Yr.	Friday	Yr.	Hour
9 a.m.	1	Economics	1	Economics	1	Physics(Lab.)	1	Physics	1	Acct.	1	9
	2	French	2	Maths.	2	French	2	Ind. Org.	2	Acct.	2	
	3	Acct. B	3	Spanish	3	Acct. B	3	Ind. Org.	3	Spanish	3	
10 a.m.	1	Acct.	1	Acct	1	Physics(Lab.)	1	Acct	1	Acct.	1	10
	2	French	2	Econ.	2	French	2	Econ. Geog.	2	Acct.	2	
	3	Acct. S.	3	Econ	3	Acct. S.	3	Econ. Geog.	3	French	3	
11 a.m.	1	French	1	French	1	French	1	Acct.	1	French	1	11
	2	Maths.	2	Econ. Geog.	2	Maths.	2	Maths.	2	Econ.	2	
	3	English	3	Econ. Geog.	3	English	3	Fire&Mar.Ins.	3	Econ.	3	
12 a.m.	1	Maths.	1	Eng. Lit.	1	Maths.	1	Eng. Lit.	1	Econ. Geog.	1	12
	2	English	2	English	2		2		2		2	
	3	French	3	French	3		3		3	French	3	
2 p.m.	1	Spanish	1		1		1		1	Spanish	1	2
	2		2		2		2		2		2	
	3		3		3		3		3		3	
3 p.m.	1	English	1	Maths.	1		1	Maths.	1	English	1	3
	2		2		2		2		2		2	
	3	Econ. (Spec.)	3	Econ. (Spec.)	3		3	Econ. (Spec.)	3	Econ. (Spec.)	3	
4 p.m.	1		1		1	Physics	1		1		1	4
	2		2	Com. Law.	2		2	Chemistry	2		2	
	3		3		3	Law (Spec.)	3		3	Law (Spec.)	3	
5 p.m.	1		1		1		1		1		1	5
	2		2	Com. Law.	2		2		2		2	
	3	Banking	3	Law (Spec.)	3		3	Law (Spec.)	3		3	

DEPARTMENT OF SOCIAL SERVICE.

CALENDAR 1920-21.

Sept. 27th, Monday	Registration begins, 9.00 a.m.
Oct. 2nd, Saturday	Registration closes at 12.00 noon for Diploma students.
Oct. 4th, Monday	First Term begins at 9.00 a.m.
Oct. 15th, Friday	University Sports Day (Holiday).
	Thanksgiving Day (Holiday).
Dec. 21st, Tuesday	Christmas Holidays begin.
Jan. 5th, Wednesday	Christmas Holidays end.
Jan. 14th, Friday	First Term Lectures end.
Jan. 18th, Tuesday	Mid-year examinations.
Jan. 24th, Monday	Second Term Lectures begin.
Feb. 9th	Ash Wednesday (Holiday).
Mar. 25th	Good Friday (Holiday).
Apr. 14th, Thursday	Second Term Lectures end.
Apr. 19th, Tuesday	Final examinations.
May 2nd, Monday	Intensive Field Work commences.
June 23rd, Thursday	Field Work ends.
June 24th, Friday	Closing Exercises.

GENERAL INFORMATION.

Admission.

Qualifications.—The work of the Department should be considered in the light of post-graduate work. The most desirable student for such work is a college graduate or person of equivalent education who has had from three to five years experience in some other field of work, such as teaching or business. Graduate nurses with general education equivalent to matriculation standard should take the course successfully. Persons under twenty-one years and over thirty-five years of age will only be admitted for exceptional reasons.

Training may make a social worker efficient, but in social work as in much other work, it is the human qualifications which distinguish the effective from the ineffective. The success of the social worker is largely dependent upon personality; therefore, tact, patience, sympathy, poise, cheerfulness, and that something which we may term "religion", and which "calls" a person into social work, may be considered the prerequisites of an embryo social worker.

Applications.—Candidates for admission are required to file application on a form supplied by the Department. Applications should be made as soon as possible to the Secretary of the Department.

Fees and Other Expenses.

1. The fee for Diploma students is $70.00, payable in two instalments, in October and January.
2. For Partial students the fee is $7.50 for a full course and $5.00 for a half or term course, and for course No. 7, $10.00.
3. The fee for the Extension Course is $5.00.
4. Books and other school expenses should not exceed $20.00.

Requirements for the Diploma.

The Diploma of the Department is awarded to students who obtain an average mark of 50 in all, and not less than 40 in any one written examination. Students must also receive satisfactory reports from the social agencies in which their field work has been taken.

Students holding degrees from any recognized university will be given credit for courses which may have been covered by the student in taking a degree, but the Department may require such students to write an examination on such subjects.

Students satisfying the examiners in Courses 1 and 2 and 7 to 15, and taking the full amount of field work, will receive a certificate for the work taken.

Field Work.

Too much emphasis cannot be given to the importance of field work as part of the training of a social worker. The field work during the first term will be taken with the Charity Organization Society. In the second term the student will be permitted to choose from one of several fields which will include work with Hospital Social Service Departments, Children's Agencies, the Women's Directory, which works with unmarried mothers, and the Social Settlements.

Time Required.

Students cannot expect to do the work of the Department satisfactorily unless able to give their full time. The Lecture and Field Work schedule and reading required will allow ample time for necessary recreation.

Library and Reading Room.

Students will have the privilege of using the Redpath Library, on making the customary deposit of $5.00; a small reference library is maintained for the use of the students in the Reading Room of the Department's offices in the Arts Building.

Board and Lodging.

Accommodation for a limited number of out-of-town students of either sex can be arranged at the University Settlement, fifteen minutes walk from the University. Rates $10.00 to $15.00 per month for room alone, $35.00 to $40.00 per month for room and board. Residents are required to give one or two evenings a week to helping in the work of the Settlement.

Bursaries.

A small loan fund is at the disposal of the Committee from which assistance can be given to a student who would otherwise be unable to take the work of the Department.

Loans will be repayable on easy terms.

Applications for assistance from this fund should be made not later than September 1st.

Opportunities for Employment.

Students qualifying for the Diploma of the Department, who have had no previous experience in Social Work, may expect to secure positions at a salary of not less than $900 per annum.

Maturer students with previous experience as teachers or in business may expect to secure from $1,200 to $1,800 at once.

The services of two of the Certificate students of the year 1919-20 have already been engaged at salaries of $1,800 and $1,200 per annum.

Diploma students may expect to find positions in one or other of the following fields:—Care Work with "Family Care" Agencies, such as the Charity Organization Society or the Associated Charities; with "Child Placing" or "Child Welfare" or "Children's Protective" Agencies; with Agencies caring for the unmarried mother; as Probation Officers with Juvenile Courts; as Hospital Social Workers; as Social Settlement Workers; as Recreation Centre or Playground Supervisors.

TIME TABLE (Subject to Change).

First Seven Months.

	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
9–10 a.m.	....	11 A.B.	Field Work	....	....	....
10–11	....	8		....	....	15
11–12	3	....		....	3	15
12–1 p.m.	....	....		....	....	....
2–3	....	....		....	....	....
3–4	13–14	2		10	6	Holiday
4–5	7	4		9–12	5	
5–6	....	....		1	7	

DESCRIPTION OF COURSES.

1. The Principles of Sociology.

One Hour.....Dr. Wm. Caldwell.

The sociological idea and the different attempts at the creation of a sociology; the history and theory of social organization.

Text-book:—Arthur Fairbanks' "Introduction to Sociology."—Scribners.

2. Industrial History.

One Hour.....Mr. Francis Hankin.

The Industrial Revolution; the rise of the Trade Union; the co-operative movement; Collective Bargaining; Joint Councils and the Trust; the influence of organization of Employers and Employees on social and political conditions.

Bibliography for reference:—"The Town Laborer," J. L. and Barbara Hammond; "History of Trade Unionism," Sidney Webb; "Co-operation at Home and Abroad," C. R. Fay; "Co-partnership and Profit Sharing," Anourin Williams; "The Whitley Report"; "Man to Man," J. L. Leitch; "Self Government in Industry," G. D. H. Cole.

3. Elements of Political Economy.

Two Hours.....Dr. Leacock.

Text-book:—Walker.

A discussion of the elementary principles of Economics, including an analysis of the production, exchange, distribution and use of wealth.

4. Heredity and Environment.

One Hour.....Professor Derick.

Phenomena of Development; Influence of Environment in lower forms of life and in man; Heredity, racial and individual characteristics; Laws of Inheritance; Control of Heredity; Selection; Eugenics.

5. Social Psychology.

One Hour.....Dr. Tait.

An outline of the psychological aspects of Society, with special reference to the abnormal mind in so far as it affects the social organism.

6. Neuro-Psychiatry.

One Hour.....Dr. Mundie.

Definitions of fallacious sense perceptions, such as Hallucinations, Illusions, Delusions; Different types of mental diseases; Symptoms;

causes and treatment of mental deficiency; epilepsy; History and Case Record-making; relation of social work to Psychiatry; differential diagnosis of organic and functional nervous diseases.

In connection with the course the students will have the opportunity to witness clinical examinations and tests.

7. The Treatment of Poverty.

Two Hours.....Mr. J. B. Dawson.

Poverty and Social Life—Historical review; The Family, a normal standard of life; factors in the breakdown of family life, individual and social; machinery for dealing with poverty, public and private; the scientific basis for social work.

Social Case Work—Value of evidence; planning rehabilitation; the use of volunteers; co-ordination of effort; case conferences. How to Help Various Types—widows, deserted women, the aged, etc., etc.

Community Effort—Social Insurance, Legislation; Conditions in Industry.

Text-books:—"Social Diagnosis," Mary E. Richmond, Russell Sage Foundation; "American Charities," Warner, 1919 Edition, Crowell & Co.

8. Child Welfare.

One Hour.....Mr. Falk.

Influences necessary to the normal development of the child in its home, at school, at play, and at work; the treatment of Dependent, Neglected, Delinquent, and Defective Children; the child of the unmarried mother; Child-Welfare Legislation.

Text-books:—"Child Placing in Families," Slingerland, Russell Sage F.; "How Two Hundred Children Live and Learn," Reeder, Noble; "Juvenile Courts and Probation," Baldwin and Flexner, Century Co.; "Delinquent Child and the Home," Breckenridge and Abbott, Russell Sage.

9. Child Health.

One Hour, First Term.....Dr. Styles.

Pre-natal care; maternity care; baby welfare; the pre-school age; medical inspection in school nursing.

10. Public Health and Housing.

One Hour.....Miss H. R. Y. Reid.

Historical sketch of origin and development of Public Health work; Government (Federal, Provincial, Municipal) measures for prevention of disease and preservation of health; sanitation, milk and food supply; control of drugs and alcohol; contagious diseases; housing; community resources as aids to Public Health (Nursing,

Hospitals, Clinics, and Dispensaries, Hospital Social Work, Industrial Hygiene); National Organizations for conservation of health; International health work.

11. Social Development of a Community.

Urban.—One Hour, Second Term.....Miss Bolduc.

The development of the modern city; city problems, work, recreation, education, immigration, community organization, school centres, social settlements, etc.

Rural.—One Hour, First Term.....Mr. Bradford

The Rural Survey; Social Organizations; Movements of Population; Town versus Country; The Land Question and Rural Welfare; Farmers' Organizations; The Rural School; Recreation in Rural Communities; The Rural Church; The Mind of the Farmer; A Practical Program.

Text-book:—Paul L. Voght, "Introduction to Rural Sociology," Appleton.

12. Home Economics.

One Hour, Second Term.....Not appointed.

Household management, the dietetic and caloric value of food; economy in buying; economical menus.

13. Organization and Administration.

One Hour, First Term.....Mr. Falk.

Organization; forms of management; responsibilities of a Director or Trustee; responsibilities of Executive Secretary; office management, conduct of meetings; charitable accountancy and auditing; financial statements; publicity in Social work; financing Social Agencies; Federation in Social work.

14. Social Research and Statistics.

One Hour, Second Term.....Mr. Falk.

Research, necessity for, methods of, preparation of questionnaires. Statistics, value and use of, preparation, tabulation, and presentation.

Text-book:—"Statistics," Bailey and Cummings, McClung.

15. The "Survey" and "Social Welfare."

Two Hours.....Mr. Falk.

Students will be required to present for discussion subjects discussed in the current issues of these periodicals. This exercise is intended to train students in presenting topics before committees and public meetings.

16. **The Psychology of Play and Playground Supervision.**

Students intending to enter the Social Settlement field will be required to take this course which is given in the School of Physical Education. Practical work is taken at the Montreal Athletic Association, and opportunity for instruction under supervision is given in the Children's Institutions of the city. An additional fee is payable for this course. Students taking this course will be excused from taking Course 3.

EXTENSION LECTURES.

Child Welfare.

10 Lectures.....Mr. Falk.

Wednesday afternoons, at 3.00 p.m. October 13th to December 15th, 1920, illustrated by lantern slides. Fee, $5.00.

This course is primarily intended for persons serving on the Boards of Management of Montreal's Children's Agencies and Institutions, but should be of interest to any citizen interested in Child Welfare work.

FACULTY OF APPLIED SCIENCE.

DEGREES.

The degrees conferred by the University upon such undergraduates of the Faculty as fulfil the conditions and pass the examinations hereinafter stated are "Bachelor of Architecture" (B.Arch.), and "Bachelor of Science" (B.Sc.), mention being made in the diplomas of the latter of the particular course of study pursued.

Students who take the Bachelor of Science degree in one of the courses provided by the Faculty may graduate in any of the remaining courses by attending one or more subsequent sessions and passing the prescribed additional examinations.

Students who wish to obtain the degrees of B.A. and B.Sc. (Applied Science) in six years, will spend the first three years in Arts before attending any classes in Applied Science, except in the summer courses referred to below; they will then enter the Faculty of Applied Science and devote the remaining three years entirely to the work of this Faculty. The special summer courses mentioned take the place of the work in descriptive geometry, drawing (freehand and mechanical) and shopwork, which form part of the regular course of the first year in Applied Science. This work must be taken in two periods of one month each, prior to the regular work of the second and third years in the Faculty of Arts; and must not be taken during the regular session in any of the three years spent in that faculty.

Every student who intends to take this double course must notify the Dean of the Faculty of Applied Science to this effect, on or before the close of his first year in Arts (May 1st), and must pay the fee of $50.00 to the Bursar, for the first of his summer schools, before the date scheduled for the beginning of the school in question.

By a resolution of the Institution of Civil Engineers (England) the holders of the degree of B.Sc., in the courses of civil, electrical, mechanical and mining engineering, who are desirous of becoming Associate Members of the Institution, may under certain conditions be exempted from the examination prescribed for admission to the Institution.

EXAMINATIONS.

1. Final examinations are held in all lecture subjects. Class examinations, for which credit may be given in the sessional standing, are held from time to time, at the option of the professor.

2. Students who have failed in one or more subjects of the curriculum shall be required to make good their standing by passing:—

(1) The regular supplemental examinations held immediately before the opening of the session, *or*
(2) The final examinations in a subsequent session, *or*
(3) Special examinations, which shall be given only under exceptional circumstances and by authority of the Faculty.

3. Failures in drawing room and laboratory subjects may under certain conditions be made good by attendance on special classes during the afternoon of the first six weeks of the following session.

4. No undergraduate will be allowed to take instruction in any subject until he has passed the examinations in the necessary prerequisite subjects, for particulars regarding which see page 250.

SCHOLARSHIPS, PRIZES AND MEDALS.

See pages 88 to 91.

FEES.

See page 98.

ENGINEERING SOCIETIES.

1. The headquarters of the Engineering Institute of Canada are located in Montreal. Students in all departments of engineering are strongly recommended to become student members of the Institute, which they can do on payment of a fee of $3.00. They are then entitled to the "Transactions," which are published annually, to the monthly journal of the Institute, and to the use of the Institute's rooms, 176 Mansfield Street. They also have opportunities of meeting the prominent engineers of the country, and of being present at the fortnightly sessions, at which papers are read on current engineering subjects and works of construction.

Students are invited to compete for the prizes which are offered by the Institute.

2. Students in Mining and Metallurgy are strongly recommended to become members of the McGill Mining Society, which, although a student body (see page 244), is affiliated with the Canadian Mining Institute, the headquarters of which are in Montreal. Members of this Society receive the Monthly Bulletin and the Transactions of the Institute without extra expense, and are entitled to attend all meetings and to compete for the prizes offered.

COURSES OF INSTRUCTION.

The instruction in this Faculty is designed to afford a thorough training of a practical as well as theoretical nature, in the following branches of applied science:—

I.—Architecture.
II.—Chemistry.**
III.—Chemical Engineering.*
IV.—Civil Engineering and Surveying.
V.—Electrical Engineering.
VI.—Mechanical Engineering.
VII.—Metallurgical Engineering.
VIII.—Metallurgy.**
IX.—Mining Engineering.

The courses in Chemistry and Metallurgy heretofore offered have been discontinued, except for students who had already entered them and were in attendance in good standing in the session of 1919-20.

Military Instruction (subject No. 400) may be given as alternative to certain subjects in connection with courses III to VII inclusive (see pages 193 to 203).

CURRICULUM.

The curriculum as laid down in the following pages may be changed from time to time as deemed advisable by the Faculty, and in no case shall it be binding beyond the session covered by this calendar announcement.

The regular work of each session in Applied Science will end about the 30th of April, at the close of the sessional examinations. The summer work will be taken during the month of May except as specified on page 204.

The work prescribed for the first two years is the same in all courses, except in that leading to the degree of Bachelor of Architecture (Course I).

The first two years of the engineering courses (III to VII) are mainly devoted to mathematics, mechanics, physics, chemistry, drawing and shopwork, as it is deemed necessary that students in these courses should master the general principles underlying scientific work before commencing the subjects of the professional courses.

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* No student shall be permitted to enter the third year of this course, who has failed to secure at least second class standing in Second Year Chemistry and Laboratory.

** This course will be discontinued in the early future. See p. 190.

The subjects of instruction in the engineering courses in these years, and the number of hours per week devoted to each, are as follows:—

FIRST YEAR

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Algebra	192	5	4	..	..	231
Descriptive Geometry	341	1	1	⅔	⅔	224
*English	131	2	2	..	..	227
Freehand Drawing and Lettering	342, 343	1	1	⅔	⅔	224
Geometry	191	2	..	..	..	231
Mechanical Drawing	211	..	..	2	2	232
Mechanics	194	2	2	..	..	231
Physics	311	2	2	..	..	246
Physics Lab	312	..	..	1	1	246
Shopwork and Shop Methods	212 to 215	..	..	2	2	232
Trigonometry	193	..	3	..	..	231

All undergraduate students of the first year, except those in the course of Architecture, who at the close of the first term have failed to obtain an average of 33 per cent. in the following five subjects, viz:— mechanics, geometry, algebra, physics and descriptive geometry, will be required to withdraw from the Faculty.

In the case of students in the course of Architecture the same rule applies, the five subjects, however, being mechanics, geometry, algebra, physics and architectural drawing.

Any other student of the first, or any subsequent year, whose record is found to be unsatisfactory, may at any time be required to withdraw from the Faculty.

All students of the First Year, except those in the Department of Architecture, who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than three subjects, at the end of the First Year, or in three subjects aggregating over 400 possible marks, shall be required to repeat all the work of the First Year, and while so doing shall be debarred from taking any more advanced work.

* The lectures will be supplemented by individual conferences with the instructors.

SECOND YEAR

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Anal. Geometry	197	3	..	..	..	231
Calculus	198	2	4	..	..	231
General Chemistry	51	3	3	..	..	215
General Chem. Lab	52	..	..	1	1	215
Mapping	348	..	..	1	1	247
Materials of Construction	81	1	1	..	..	219
Descriptive Geometry and Perspective	345	1	1	⅔	⅔	225
Mechanics	83	2	2	⅔	⅔	219
Mech. of Machines	218	..	1	..	⅔	233
Physics	315	2	2	..	..	246
Physics Lab	316	..	..	1	1	246
Shop Methods	220, 221	1	1	1	1	233
Surveying	346	2	2	..	..	247
Surveying Field Work	347	..	..	..	..	247
Summer Reading	132	..	..	..	..	205

NOTE—Surveying field work, 4 weeks, beginning May 2nd, 1921. See pages 247 and 248.

For other summer work, see pages 204 to 207.

I. ARCHITECTURE.

The course for the degree of Bachelor of Architecture extends over five years. Full information is given in the Announcement of the Department, which will be sent to interested persons upon request to the Registrar of the University.

The work of the first year is similar in most respects to that of the first year in other Departments in Applied Science, but special instruction is given in Drawing and Architectural Geometry.

The object of this curriculum is to impart such general culture, scientific knowledge and skill of hand as will prepare the student to profit by the work of the succeeding years, under the heads of:—

(*a*) Design; (*b*) Aesthetic; (*c*) Archæology; (*d*) Science; (*e*) Construction; (*f*) Professional Practice; (*g*) Drawing.

An essay on an historical or theoretical subject is required in each term from all students following the historical or theoretical courses.

In all courses studio work goes hand in hand with oral teaching, with a view to the practical application of the theory, while at the

same time affording opportunity for the acquisition of power in draughtsmanship and practice in design.

An arrangement has been concluded between McGill University and the Province of Quebec Association of Architects, whereby holders of the Bachelor of Architecture degree are admitted to practice in the Province after spending one year in the office of a member of the Association, and passing an examination in design, instead of having to take the regular prescribed entrance examinations. The office experience may be gained by working in the summer vacations.

FIRST YEAR

SUBJECT	Subject Number	Lectures per week		Draughting Room and other periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
General History	Arts (13)	2	2	..	..	138
English	131	2	2	..	..	2 7
Algebra	192	5	5	..	..	231
Geometry	191	3	..	..	..	231
Trigonometry	193	..	3	..	..	231
Mechanics	194	2	2	..	..	231
Physics	Arts (42)	2	2	..	..	150
Physics Lab	Arts (43)	..	..	1	1	150
Elements of Architecture	5	1	1	..	..	209
Architectural Geometry	18	1	1	..	..	213
Architectural Drawing	31	..	..	2	2	213
Freehand Drawing	36	..	..	2	2	213

SECOND YEAR

Design 1	1	..	..	2	2	209
Elements of Composition	6	1	1	..	..	209
Building Construction	24	1	1	..	..	212
Building Details	25	..	..	2	2	212
Structural Engineering I	26	2	2	..	..	212
Struct. Eng. (Draughting) I	27	..	..	1	1	212
History of Classic Architecture	14	2	2	..	..	211
Graphical Statics	83	..	1	..	..	219
Surveying	346	2	2	..	..	247
Mapping	348	..	..	1	1	247
Architectural Drawing	32	..	..	1	1	213
Freehand Drawing	37	..	..	2	2	213
Summer Work	48	..	..	..	..	214
Surveying Field Work	347	..	..	..	..	247
Architectural Essay	44	..	..	..	..	214

THIRD YEAR

SUBJECT	Subject Number	Lectures per week		Draughting Room and other periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Design 2	2	..	..	3	3	209
Theory of Design*	7	1	1	..	..	210
Structural Engineering, II	..	1	1	..	..	212
Struct. Eng. (Draughting) II	29	..	..	2	2	212
History of Mediaeval or Renaissance Archt.†	15 or 16	2	2	..	..	211
Ornament and Decoration‡	9 and 10 or 11 and 12	1	1	1	1	210
Perspective	19	..	..	1	1	214
Freehand Drawing	38	..	..	1	1	213
Architectural Drawing	33	..	..	1	1	213
Summer Work	48	..	..	..	..	214
Architectural Essay	45	..	..	..	..	214

FOURTH YEAR

Design 3	3	..	..	5	5	209
Theory of Planning*	8	1	1	..	..	210
History of Mediaeval or Renaissance Architecture	15 or 16	2	2	..	..	211
Ornament and Decoration	9 and 10 or 11 and 12	1	1	1	1	210
Hygiene	22	2	..	..	..	212
Heating and Ventilation	23	..	1	..	1	212
Architectural Drawing	34	..	..	1	1	213
Freehand Drawing	39	..	..	1	1	213
Modelling	40	..	..	1	1	213
Architectural Essay	46	..	..	..	..	214
Summer Work	48	..	..	..	..	214

FIFTH YEAR

Design 4	4	..	..	8	8	209
Modern Architecture	17	2	2	..	..	211
Professional Practice	30	2	2	..	..	212
Engineering Law	175	1	1	..	..	230
Historical Drawing	35	..	..	1	1	213
Modelling	41	..	..	1	1	214
Architectural Essay	47	..	..	..	..	214
Summer Work	48	..	..	..	..	214

†The courses on Mediaeval and Renaissance Architectural History, numbers 15 and 16, are given in alternate years.

During the Session 1920–21, the History of Mediaeval Architecture will be given.

‡Ornament and Decoration courses, numbers 9 and 10, and 11 and 12, are given in alternate years. During the Session 1920–21, numbers 11 and 12 will be given.

For summer reading see page 205.

*The courses on Theory of Design and Theory of Planning, numbers 7 and 8, will be given in alternate years.

CHEMISTRY.

The course in Chemistry has been discontinued, except that undergraduates in good standing in the course during the session of 1919-20 will be permitted to complete the requirements for the degree in accordance with the following schedule.

THIRD YEAR

(1920–21 only)

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Economics	171	..	2	..	..	230
Geology, General	141	2	2	⅓	⅓	228
Inorganic Quant. Anal	61	1	..	..	..	216
Inorganic Quant. Anal. Lab	76	..	..	6	6	218
Gen. Elementary Metallurgy	261	2	..	..	..	238
Mineralogy	142	2	2	..	..	228
Mineralogy, Determinative	143	..	..	2	..	228
Organic Chemistry	56	3	2	..	..	210
Organic Chemistry Lab	57	..	..	..	2	216
Physical Chemistry	58	2	..	..	..	216
Summer School Fire Assaying and Metallography	263 & 264	..	..	..	..	239
Summer Essay or Reading	133	..	..	..	..	206

FOURTH YEAR

(1921–22 only)

Applied Electro-chemistry	70	2	..	..	..	218
Crystallography (opt.)*	151	2	..	1 (opt)	..	229
Engineering Law	175	1	1	..	..	230
Industrial Chemistry, Inorg.	68	2	..	..	..	218
Industrial Chemistry, Organic	69	..	2	..	..	218
Physical Chemistry and Lab.	66	2	2	2	1	217
Adv. Inorg. Chemistry	72	2	2	..	..	218
Inorganic Laboratory (alt.)	77	*1(a)	..	6(a)	7(a)	218
Ore Deposits (opt.)	148	..	4	..	..	229
Advanced Organic Chemistry	64	2	2	..	..	217
Organic Chem. Lab. (alt.)	65	..	..	5(b)	6(b)	217
Food Chemistry (alt.)	73	..	*1(b)	..	..	216
History of Chemistry	74	..	1	..	..	218
Summer Essay	134	..	..	..	..	206

*Students who elect to take this subject will be allowed some relief from Chemical Laboratory.

II. CHEMICAL ENGINEERING.*

The aim of this course is to prepare students for positions demanding a knowledge of both chemistry and engineering. The duties of a chemical engineer require him to be conversant with chemical processes, the installation of chemical units, and to understand the construction of buildings, the installation and operation of machinery, etc. Accordingly the course of study combines a considerable amount of engineering with the maximum of chemical training which can be attained without overpressure.

Between the second and third years students taking this course must attend a summer session of four weeks in the chemical laboratories.

In the third year specialization commences, the time being about equally divided between chemical and engineering studies, and in the vacation between the third and fourth years all students must give at least six weeks to work in some chemical industry or to equivalent laboratory work satisfactory to the Professor of Chemistry.

In the fourth year the engineering studies are completed and the chemical studies which predominate are arranged in two alternative courses to meet the requirements of the students who cannot possibly study more than a few of the very varied chemical industries. These alternative courses fall broadly under one or other of two headings:—(*a*) inorganic, (*b*) organic, as indicated in the table below, and one or other of which the student will select. Should a student desire to prepare for an industry which requires more engineering knowledge than is provided in the regular course he may substitute additional engineering subjects for some of the chemical work. Details will be arranged on application to the Faculty through the Professor of Chemistry.

While every effort will be made to supply detailed information as to methods and plan of many of the important industries, and to provide facilities for experimentally carrying out the processes involved, the main aim will be devoted to the study of the principles which underlie economical production.

FIRST AND SECOND YEARS.

As in other Engineering Courses. For details, see pages 186 and 187.

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* No student shall be permitted to proceed to the third year of this course until he has secured at least second class standing in the subjects of General Chemistry (51) and Chemistry Laboratory (52).

THIRD YEAR

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Economics	171	..	2	..	..	230
General Elem. Metall.	261	2	..	..	..	218
Inorg. Quant. Anal.	61	1	..	..	..	216
Inorg. Quant. Analysis Lab	62	..	..	3	3	216
Mech. Eng. and Lab.	226 and 228	2	2	1	1	234
Mineralogy	142	2	2	..	..	228
Mineral. Deter.	143	..	..	2	..	228
*Ore Dressing (opt.)	295	2	2	..	..	241
Organic Chemistry	56	3	2	..	..	216
Organic Chem. Lab.	57	..	..	..	2	216
Physical Chemistry	58	2	..	..	..	216
Strength of Materials	87	2	2	..	..	220
Strength of Mats. Lab.	88	..	..	..	1	220
Structural Design	90	..	1	..	1	221
Summer School. Inorg. Qual. Anal. and Lab.	54 and 55	..	..	..	..	215
Summer Essay or Reading	133	..	..	..	..	206

FOURTH YEAR

Elements of Elec. Eng.	111	2	2	..	..	225
Elect. Eng. Lab.	112	..	..	1	1	226
Engineering Economics	172	2	..	..	..	230
†Engineering Law (alt.)	175	1	1	..	..	230
†Hydraulics	101	1	..	½	..	223
Industrial Inorg. Chemistry	68	2	..	..	..	218
Industrial Organic Chem.	69	..	2	..	..	218
Phys. Chem. and Lab.	66	2	2	1	2	217
Metallography	262	..	..	..	1(a)	239
†Military Science (alt.)	400	2	2	..	1	..
Applied Electro-Chem.	70	2	..	..	..	218
Electro-Metal. (opt.)	275	..	2	..	..	241
Electro-Metal. Lab. (opt.)	276	..	..	..	1	241
Fire Assay	263	..	..	1(a)	..	239
Adv. Inorg. Chemistry	72	2(a)	2(a)	..	..	218
Inorganic Laboratory	67	1(a)	..	3(a)	4(a)	217
Advanced Org. Chem.	64	2(b)	2(b)	..	..	217
Org. Chem. Lab.	65	..	..	4(b)	2(b)	217
Food Chemistry	73	..	1(b)	..	2(b)	216
History of Chemistry	74	..	1	..	..	218
Summer Essay	134	..	..	..	..	206

†Military Science (400) is alternative with Engineering Law (175) and Hydraulics (101). (a) Inorganic alternative. (b) Organic alternative.

*Students registering for any optional course must complete the course and take the qualifying examination.

Students taking subject No. 295 may withdraw from this work at the conclusion of the first term.

III. CIVIL ENGINEERING.

The courses of study are designed to emphasize the fundamental principles embodied in the study of mechanics, strength of materials, and hydraulics, while at the same time affording an opportunity of applying these principles to practical problems ranging over as wide a portion as possible of the field covered by the practice of civil engineers. A broad and sound foundation is thus laid for future specialization, either in graduate courses or in actual practice. The outlook of the student is further broadened by courses in Mechanical and Electrical Engineering. In the designing courses special attention is given to the interpretation and critical discussion of specifications as well as to the economical principles involved. Students are recommended to obtain as much practical experience as possible during the summer vacations, and are specially recommended to spend at least one season in a drafting office before the final year.

FIRST AND SECOND YEARS.

As in other Engineering Courses. For details, see pages 186 and 187.

THIRD YEAR

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Economics	171	..	2	..	..	230
Foundations	89	..	1	..	1	220
Geology, General	141	2	2	⅓	⅓	228
Hydraulics	97	2	..	..	..	221
Hydraulic Laboratory	98	..	..	1	..	230
Map Projections	351	..	..	1	..	247
Mechanical Engineering	226	2	2	..	..	233
Mech. Eng. Lab.	228	..	..	1	1	233
Mechanics	86	2	..	..	..	219
Railway Engineering	92	2	2	..	..	221
Railway Engineering	93	..	..	2	2	221
Strength of Mats. and Lab.	87, 88	2	2	..	1	220
Structural Design	90	..	1	..	1	221
Surveying	353	2	2	..	..	247
*Surveying Fieldwork	354	..	..	..	..	247
Summer Reading or Essay	133	..	..	..	..	206

FOURTH YEAR

Bridge Design	96	2	2	2	2	222
Elements of Elect. Eng.	111	2	2	..	..	225
Electrical Eng. Lab.	112	..	..	1	1	226
Engineering Economics	172	2	..	..	..	228
†Engineering Law (alt.)	175	1	1	..	..	230
Geodesy	359	2	..	..	..	248
Geodetic Laboratory	360	..	..	1	..	248
*Geodetic Fieldwork	361	..	..	..	..	248
†Hydraulic Mach. (alt.)	99	..	2	..	..	222
†Military Science (alt.)	400	2	2	..	1	...
Municipal Eng.	100	2	2	..	1	223
Strength of Materials	95	2	1	..	1	222
Theory of Structures	94	1	2	1	2	221
Summer Essay	134	..	..	..	..	206

†Military Science (400) is alternative with Engineering Law (175) and Hydraulic Machines (99).

*For Surveying Fieldwork (354) and Geodetic Fieldwork (361), see details of Summer Schools, pages 247 and 248.

IV. ELECTRICAL ENGINEERING.

The electrical studies of the third year embrace a consideration of current flow; the principles of electro-magnetism; electrical measurements; the design and performance of electrical machinery.

The fourth year is devoted principally to electrical work, and includes lectures and laboratory work on variable and alternating current phenomena, the principles of action and the design of electrical machinery, electric lighting and systems of power distribution, central station design and operation, urban and interurban railways, hydro-electric power development, electro-chemistry, electro-metallurgy and wireless telegraphy.

Occasional visits are made to electrical works and power plants.

FIRST AND SECOND YEARS.

As in other Engineering Courses. For details, see pages 186 and 187.

THIRD YEAR.

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Economics	171	..	2	..	..	230
Electrical Engineering	113	3	3	..	..	225
Electrical Engin. Lab	114	1	1	2⅔	2⅔	225
Calculus	201	1	1	..	..	232
Machine Design	225	2	2	..	..	234
Mechanical Drawing	232	..	..	1	1	235
Mech. Eng. and Lab	223, 226	2	2	2	1	234
Mechanics	86	2	..	..	..	219
Mech. of Machines	224	2	2	⅔	⅔	233
Thermodynamics	229	2	2	..	..	235
Strength of Mats. and Lab.	87, 88	2	2	..	1	220
Sum. Reading or Essay	133	..	..	..	..	206

FOURTH YEAR.

Applied Elec. Chem	70	2	..	..	.	218
Electrical Photometry and Illumination	124	2	..	..	..	227
Applications of Electricity	123	..	2	..	..	227
Electro-Metallurgy	275	..	2	..	..	241
†Electrical Designing	122	2	2	1	1	227
Electrical Engineering	117	3	3	..	..	226
Elec. Eng. Lab	118	..	..	3	3	226
Elect. Light and Power Dist.	120	2	..	..	..	226
Electric Traction	121	..	2	..	..	226
Engineering Economics	172	2	..	..	..	230
†Engineering Law (alt.)	175	1	1	..	..	230
Hydraulics	97	2	..	..	..	221
Hydraulics Lab	98	..	..	1	..	221
Machine Design	243	2	..	..	..	236
†Military Science (alt.)	400	2	2	..	1	...
Physics	320	2	2	..	..	246
Physics Lab	321	..	..	2	2	246
Summer Essay	134	..	..	..	..	206

†Military Science (400) is alternative with Engineering Law (175) and one lecture hour per week of Electrical Design (122).

For summer schools, see page 204.

V. MECHANICAL ENGINEERING.

The subjects of instruction in this Department are of interest to students who are likely to take up work connected with—

(*a*) The constructive or manufacturing side of mechanical engineering, including industrial or production engineering; (*b*) steam engineering; (*c*) gas engine and producer work; (*d*) power plant engineering; (*e*) heating and ventilation of buildings and factories; (*f*) aeronautics and aerodynamics.

Courses are given during the third and fourth years in mechanical engineering as applied to questions connected with power installations and prime movers. The earlier portion of this work is supplementary to the instruction given in thermodynamics, mechanics of machines and machine design, and leads up to the more advanced or technical subjects of power plant design, industrial plant design and works organization.

Students in the Department of Mechanical Engineering take systematic work in electrical engineering during the third year.

Instruction in workshop practice is given in each of the four years. This work is of a systematic nature, and is intended to prepare for, but by no means to replace, that practical experience of manufacturing operations on a commercial basis which every mechanical engineer must obtain for himself.

The course in thermodynamics deals more particularly with the theory of heat engines, and time is assigned for additional graphical and experimental work in connection with the subject.

Arrangements are made for occasional visits to power plants and manufactories of importance.

FIRST AND SECOND YEARS.

As in other Engineering Courses (see pages 186 and 187), with additional course in September for second year (page 204).

THIRD YEAR.

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Economics	171	..	2	..	..	230
Elements of Elect. Eng.	111	2	2	..	..	225
Elect. Eng. Lab.	112	..	..	1	1	226
Machine Design	225	2	2	..	..	236
Mechanical Drawing	231	..	..	2	1	235
Mechanical Eng. and Lab.	227, 228	3	3	1	1	234
Mechanics	86	2	..	..	..	219
Mechanics of Machines	224	2	2	⅓	⅓	233
Shopwork	235, 236	..	..	1	1	235
Shop Processes and Management	237	1	1	..	..	236
Strength of Mats. and Lab.	87, 88	2	2	..	1	220
Structural Design	90	..	1	..	1	221
Thermodynamics	229	2	2	..	..	235
Sum. Sch. Shopwork	233, 234	..	..	..	..	235
Sum. Reading or Essay	133	..	..	..	..	206

FOURTH YEAR.

Designing	241	..	..	1	1	235
Engineering Economics	172	2	..	..	..	230
†Engineering Law (alt.)	175	1	1	..	..	230
Experimental Eng.	257	1	1	..	..	237
Hydraulics and Lab.	97, 98	2	..	1	..	221
**{Hydraulic Mach. (alt.)	99	..	2	..	..	222
**{Man. Plant Des. (alt.)	253	..	2	..	1	238
Machine Design	242	2	2	..	..	235
Power Plant Design	244	1	1	1	1	237
Heat. and Vent. of Buildings	247	1	1	..	..	237
Mech. Eng. Lab.	249	..	..	3⅓	3⅓	237
Mech. of Mach.	240	2	2	⅓	⅓	236
†Military Science (alt.)	400	2	2	..	1	...
Works Organization and Accounting	254	1	1	..	..	238
Shopwork	252	..	..	1	1	237
Thermodynamics	251	2	2	..	..	237
Summer Essay	134	..	..	..	..	206

**One of the subjects, 253 *or* 99, must be taken unless Military Science (400) is chosen.

†Military Science (400) is alternative with Engineering Law (175) and Hydraulic Machinery (99) *or* Man. Plant Design (253).

VI. METALLURGICAL ENGINEERING.

This course is designed for students intending to enter metallurgical works, such as iron or steel works or smelters. It includes instruction in the engineering, chemical, metallurgical and ore-dressing studies required by practising metallurgists.

A certain amount of mining is included in the third year curriculum in order to show the relation between mining and metallurgy; but the course is not intended for students wishing to become mining engineers.

In the third year instruction is given in chemistry, assaying, geology, mineralogy, metallurgy, mining, ore-dressing, and mechanical and structural engineering.

After the third year there is a summer school in metallurgical works.

In the fourth year instruction is given in chemistry, electrical engineering, law, hydraulics, metallurgy and ore-dressing. Metallurgical designing and laboratory work form important parts of the course.

FIRST AND SECOND YEARS.

As in other Engineering Courses. For details, see pages 186 and 187.

Between the second and third years there is a four weeks' summer school in qualitative analysis in the chemical laboratory, beginning about the first of September.

THIRD YEAR.

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Economics	171	..	2	..	..	230
Fire Assaying	263	1	..	2	..	239
Geology, General	141	2	2	⅓	⅓	228
Gen. Element. Metall	261	2	..	..	½	238
Inorg. Quant. Anal. and Lab.	61, 62	1	..	1	1	216
Mech. Eng. and Lab.	226, 228	2	2	1	1	234
Metall. Calculations	265	1	1	..	..	239
Metall. Colloquium	266	1	..	..	..	240
Metallurgical Lab.	262	..	..	..	1½	239
Mineralogy and Lab.	142, 143	2	2	2	..	228
Mining Engineering	291	..	2	..	..	241
Ore Dressing and Lab.	292	2	2	..	½	241
Strength of Mats. and Lab.	87, 88	2	2	..	1	220
Structural Design	90	..	1	..	1	221
Summer School Inorg. Qual. Anal. and Lab.	54, 55	..	..	..	..	215
Sum. Reading or Essay	133	..	..	..	..	206

FOURTH YEAR.

Elem. Elect. Eng. and Lab.	111, 112	2	2	1	1	225
Electro-Metal. and Lab.	275, 276	..	2	..	1	241
Engineering Economics	172	2	..	..	..	230
†Engineering Law (alt.)	175	1	1	..	..	230
General Metallurgy	271	2	2	..	..	240
Hydraulics	101	1	..	½	..	223
Industrial Chemistry, Inorg.	68	2	..	..	..	218
Inorganic Quant. Anal.	67	1		4	..	217
†Metallurgy	272	2	3	..	..	240
Metallurgy Colloquium	277	..	1	..	..	241
†Metall. Lab.	274	..	..	½	3	240
Metall. Mach. and Design.	278	..	..	..	2	241
†Military Science (alt.)	400	2	2	..	1	..
Ore Dressing and Lab.	299, 300	2	..	1	..	242
Ore Deposits	148	1	4	..	..	229
*Sum. Sch. Metal. Works	267	..	..	..	..	240
Summer Essay	134	..	..	..	..	206

†Military Science (400) is alternative with Engineering Law (175) and one hour per week in Metallurgy (272) and one period second term Metal. Lab. (274).

*Metallurgical summer school (267) is taken at the end of the third year. For summer schools, see page 204.

METALLURGY.

This course has been discontinued, except that undergraduates in good standing in the course during the session of 1919-20 will be permitted to complete the requirements for the degree in accordance with the following schedule.

FOURTH YEAR

(1920–21 only)

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Electro-Chemistry	70	2	..	..	..	218
Electro-Metall. and Lab	275, 276	..	2	..	1	241
Engineering Economics	172	2	..	..	..	230
†Engineering Law (alt.)	175	1	1	..	..	230
General Metallurgy	271	2	2	..	..	240
Industrial Chemistry, Inorg.	68	2	..	..	..	218
†Inorg. Chemistry (alt.)	72	2	2	..	..	218
Inorg. Quant. Anal	67	..	1	3	2	217
Metallurgy	272	2	3	..	..	240
Metallurgy Colloquium	277	..	1	..	..	241
Metall. Lab	274	..	..	3	2	240
Metall. Mach. and Design	278	..	..	..	2	241
†Military Science (alt.)	400	2	2	..	1	..
Ore Dressing and Lab	299, 300	2	..	1	..	242
†Ore Deposits and Economic Geology (alt.)	148	1	4	..	..	229
†Petrog. and Lab. (alt.)	146	1	..	..	1	228
*Sum. Sch. Metal Works	267	..	..	..	..	240
Summer Essay	134	..	..	..	..	236

†Students taking Military Science (400) need not take any of the other alternative subjects 72, 146, 148 and 175.

Other students will take Engineering Law (175) and one of the subjects 72, 146 and 148, but the lectures given will be so arranged as to give these courses equal weight.

*Metallurgical summer school (267) is taken at the end of the third year.

VII. MINING ENGINEERING.

Specialization does not begin until the third year, when an elementary course in metallurgy is given and the professional courses in mining, ore-dressing and fire-assaying are begun, but the chief work is still in such fundamental science subjects as applied mechanics, chemistry, geology, mineralogy, and mechanical engineering.

The fourth year, on the other hand, is very largely given up to technical work in mining, ore-dressing, economic geology, metallurgy, and electrical engineering, and two elective alternative lines of study are offered, both including the essential subjects of the Mining Course and leading to the degree, but each permitting of a considerable amount of specialization, the first (*a*) in advanced petrography and geology, the second (*b*) in mining and ore-dressing machinery.

In both cases the fourth year work includes the equivalent of at least two full days per week in the laboratories and drafting room of the mining department, and in the second term each student is required to prepare a thesis giving the result of an extended individual experimental investigation.

A field school in mining, ore-dressing and geology is held between the third and fourth years, the work ordinarily beginning immediately after the close of the April examinations. From four to six weeks are spent in travel, during which a number of mines and concentrators are visited and critically studied under the direction of the departmental staff.

Facilities are also afforded in the department to graduate students who wish to do advanced work in mining or ore-dressing.

FIRST AND SECOND YEARS.

As in other Engineering Courses. For details, see pages 186 and 187.

THIRD YEAR

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Economics	171	..	2	..	..	230
Fire Assaying	263	1	..	2	..	239
Geology, General	141	2	2	1/3	1/3	228
Inorg. Qual. Anal. and Lab.	59, 60	1	..	..	2	216
Mine Mapping	293	..	..	1	..	242
Mech. Eng. and Lab.	226, 228	2	2	1	1	234
Gen. Element. Metall.	261	2	..	..	1/2	238
Mineralogy	142	2	2	..	..	228
Mineralogy, Determinative	143	..	..	2	..	228
Mining Engineering	291	..	2	..	..	241
Ore Dressing and Lab	292	2	2	..	1/2	241
Strength of Mats. and Lab.	87, 88	2	2	..	1	220
Struct. Design	90	..	1	..	1	221
Surveying	352	2	..	..	..	247
Surveying Field Work	354	..	..	..	..	247
Sum. Reading or Essay	133	..	..	..	..	206

FOURTH YEAR

Engineering Economics	172	2	..	..	..	230
Elem. of Elec. Eng. and Lab.	111, 112	2	2	1	1§	225
Engineering Law (alt.)	175	1†	1†	..	..	230
Geology of Canada	149	1	..	..	..	229
Geology, Historical (alt.)	152	1*	1*	..	1*	229
Hydraulics	101	1	..	1/2	..	223
Metallurgy, General	271	2	2	..	..	240
Military Science (alt.)	400	2†	2†	..	1†	..
Mineral Analysis	71	..	..	4	..	218
Mining Engineering	297	3	3	..	..	242
Mining Mach	298	1*† / 2†§	1* / 2§	..	2	242
Mining Colloquium	302	..	1	..	..	242
Ore Dep. and Econ. Geol.	148	1	4†	..	..	229
Ore Dressing and Milling	299	2	..	..	..	242
Ore Dress. Lab.	300	..	..	1 1/2* / 1 1/2§	..	242
Ore Dress. Lab. and Thesis	301	..	..	..	3	243
Petrography and Lab.	146	1	..	..	1	228
Petrography Advanced (alt.)	147	..	..	1*	..	229
Mining Field School	294	..	..	..	..	244
Field Geology (alt.)	154	..	..	..	..	230
Summer Essay	134	..	..	..	..	206

†Students taking Military Science omit the whole of Engineering Law (175) and 12 lectures each in Mining Machinery (298) and Ore Deposits (148).

*For students taking the Mining Geology Alternative Course.

§For Students taking the Mining Engineering Alternative Course.

NOTE:—Mining Field work at end of third year. See page 244.

Surveying Field Work, between the second and third years. See page 247.

Geological Field Work, between the third and fourth years. See page 229

SUMMER SCHOOLS.

Undergraduates are required to attend Summer Sessions as specified below. The work is set forth in detail under the subject numbers referred to.

Except as noted Classes will begin on May 2nd, and will close on May 28th, 1921.

COURSE	Students entering Second Year		Students entering Third Year		Students entering Fourth Year	
	Subject No.	Page	Subject No.	Page	Subject No.	Page
Architecture	347	247	..	..	..	..
Chemistry	..	..	*263, 264	239	..	..
Chemical Engineering	347	247	54, 55	215	..	..
Civil Engineering	347	247	354	247	*361	248
Elect. Engineering	347	247	..	..	..	..
			..	..	..	..
Mechanical Engineering	347	247	233	235	..	..
			234	235	..	..
Metallurgical Eng	347	247	54, 55	215	267	240
Metallurgy	..	..	..	..	267	240
Mining Engineering (alt.)a	347	247	354	247	†154	230
					294	244
Mining Engineering (alt.)b	347	247	354	247	294	244

*These schools are held during the month of September.

†This school is held in the ten days immediately preceding the beginning of the first term.

SUMMER ESSAYS AND SUMMER READING

SESSION 1920-21

1. For Students entering the Second Year.

All students entering the second year, except those in the course in Architecture (see below), will be required to read not less than three books from Group "A" and one book from Group "B" in the following list:—

"A"

Macaulay—Essays on Hampden, Walpole,
Pitt, Chatham and Hastings.
No. 225, Everyman's Library,
J. M. Dent & Sons, Limited.

Withers—"Poverty and Waste."
E. P. Dutton & Company.

Ferrand—"The Development of the United States."
Houghton Mifflin Company.

Parkman—"Montcalm and Wolfe."
Little Brown Company.

Goldwin Smith—"Reminiscences."
Macmillans, London and Toronto.

"B"

Thackeray—"Vanity Fair."
No. 298, Everyman's Library,
J. M. Dent & Sons, Limited.

George Eliot—"Mill on the Floss."
No. 325, Everyman's Library,
J. M. Dent & Sons, Limited.

Stevenson—"Kidnapped."
Cassells, London; Burt, New York.

Students in the course in Architecture must read the following books:—

Sturgis, Russel—"How to Judge Architecture."

Lytton, Lord—"Last Days of Pompeii."

Students in the course in Architecture must also either spend five weeks in the office of an architect or contractor, or prepare thirty-five reasonably large freehand sketches in any desired medium.

All students will be required to pass an examination in the summer reading at the opening of the session. A maximum of 100 marks will be allowed for this reading.

2. For Students entering the Third Year.

Students entering the third year, except those in the course in Architecture (see below), must either

(a) Follow a course of summer reading, *or*
(b) Prepare an essay.

(a) The summer reading required is Shadwell's Industrial Efficiency (Longmans, Green & Co., 1913), on which an examination will be held at the opening of the session. The same number of marks are allotted for this reading as for the essay.

(b) The essay must in all respects follow the specifications laid down for essays submitted by students entering the fourth year, except that it may be shorter. All rules and regulations governing the fourth year essays, as set forth below, also apply to the third year essays. (See section 3.)

Students in Electrical Engineering or Mechanical Engineering electing to write an essay and who are not engaged during the summer on any engineering, scientific or industrial work which would afford a subject for an essay, may write on one of the following subjects:—

(Electrical Engineering students.)

(1) The application of Electric Power to Industrial Establishments.

(2) Relation between Fundamental, Electrical and Mechanical Units.

(Mechanical Engineering students.)

(1) Oil Fuel under Boilers.
(2) Industrial Safety.
(3) Shop Jigs and Gauges.

Students in Mining Engineering who are for any reason unable to write on some engineering work of which they have personal knowledge will be required to take the summer reading (a).

Students in the course in Architecture are not permitted to submit an essay, but must read the following books:—

Lethaby—"Mediaeval Art, 1912."
(Everyman's Library, Dent.)
De Joinville's "Chronicles of the Crusades."
(Everyman's Library, Dent.)

Students in the course in Architecture must either spend five weeks in the office of an architect or contractor, or prepare thirty-five reasonably large freehand sketches in any desired medium.

3. For Students entering the Fourth and Fifth Years.

Students entering the fourth year, except those in the course in Architecture (see below), are required to prepare an essay during the summer,

to be handed in at the Dean's Office *not later than 5 p.m. on Monday, October 11th.* A maximum of 100 marks, or nearly 10% of the total marks for the year, is given for these essays.

The essays should be from 2,000 to 5,000 words in length. They should be illustrated by drawings, sketches, and (when desirable) by photographs, specimens, etc.

No essay compiled from books alone will be accepted unless the student has obtained in advance the permission of the head of his department to prepare such an essay.

The *most acceptable subject for an essay* is a critical description of the work on which the student is engaged during the summer, but a description of any engineering, scientific, or industrial work with which he is familiar will be accepted.

Students in Electrical Engineering, or Mechanical Engineering, who are not directly connected with any such work, may write on one of the following subjects:—

(Electrical Engineering students.)

(1) Long Distance Power Transmission.
(2) Variable Speed Drives for Machine Tools.
(3) The Substitution of Electricity for Steam on Railroads.

(Mechanical Engineering students.)

(1) Heavy-oil Engines.
(2) Central Station Heating.
(3) Engineering Ethics.
(4) Industrial Relations between Capital and Labor.

The essays must be well expressed, and written in precise, well chosen, grammatical English. Advantage may be taken of any source of information in the preparation of the essays, but due acknowledgment must always be made of all the authorities and books which have been consulted. In judging of the value of the essays, account will be taken not only of the subject matter, but also of style and literary construction.

All essays when handed in will become the property of the department concerned and will be filed for reference. Students may submit duplicate copies of their essays in competition for the students' prizes of the Engineering Institute of Canada, or of the Canadian Mining Institute.

The essays must be written on paper of substantial quality and of a size approximately 8½ x 11 inches.

Students in the course in Architecture are not permitted to submit an essay, but must read the following books:—

(*Fourth Year*)

Lethaby. "Mediaeval Art." (Everyman's Library, Dent.)
De Joinville's "Chronicles of the Crusades."
(Everyman's Library, Dent.)

(*Fifth Year*)

Morris, W. "Lectures on Art."
Santayana, G. "The Sense of Beauty."
N.Y. 1896.

They will be required to pass an examination on this reading at the opening of the session. A maximum of 100 marks will be allowed for the work.

In addition to this reading, students in the course in Architecture must either spend five weeks in the office of an architect or contractor, or prepare thirty-five reasonably large freehand sketches in any desired medium.

SUBJECTS OF INSTRUCTION.

The following courses are subject to such modifications during the year as the Faculty may deem advisable.

DEPARTMENT OF ARCHITECTURE.

PROFESSORS:—{RAMSAY TRAQUAIR (in charge of Department).
PERCY E. NOBBS (in charge of Design).

ASSISTANT PROFESSOR:—W. E. CARLESS.

SPECIAL INSTRUCTOR:—E. DYONNET.

SPECIAL LECTURERS:—{P. J. TURNER.
LESSLIE R. THOMSON.

A.—Design.

Students register for second, third, fourth or fifth year Design according to their year in the University. They are graded for purposes of instruction into grades A, B, C and D, and are promoted in these grades according to ability. All students before receiving the degree must pass fifth year Design and qualify in grade D.

1. GRADE A. Simple problems in composition of a monumental nature, not involving difficulties of plan.

2. GRADE B. The Design of domestic and small public buildings involving simple plans and the grouping of elements.

3. GRADE C. The design of public buildings.

4. GRADE. D. A series of problems involving the plan, structure and lay-out of complex buildings and groups of buildings. The diploma design for graduation is done in the second term of the final year.—Mr. Nobbs.

B.—Aesthetic.

The theoretical courses that follow are intended to develop a sense of critical judgment in the student, and to emphasize the fundamental principles of composition and design.

5. THE ELEMENTS OF ARCHITECTURE (24 lectures).

The five orders of Vignola, pedestals, pediments, intercolumniation and superposition of orders, arches, vaults, domes, roofs, openings, walls, and stairs. Mr. Carless.

6. THE ELEMENTS OF COMPOSITION (24 lectures).

Analogies in the arts, proportion, scale, expression, decoration, massing, unity, symmetric and asymmetric grouping, individuality,

horizontality and verticality. General rules of composition in plan; architectural acoustics and the æsthetic properties of materials.

Reference Book:—Eléments et théorie de l'Architecture. Gaudet

7. Theory of Design (24 lectures).

(a) *Aesthetic Practice*:—Pure design; the function of ornament; the moral logic of ornamental motif; the material logic of ornamental treatment; evolution of form; the placing of ornament; classification of significant ornament; (b) *Aesthetic Theory*:—The history of æsthetic enquiry; the phenomena of perception, pleasure, pain, and expression; the art impulse, and the relation of beauty to the arts; subject, emotional content and medium in works of art; the criteria of excellence. Prof. Nobbs.

Books:—The Mistress Art, Bloomfield; The Fine Arts, Baldwin Brown.

8. Theory of Planning (24 lectures).

(a) *Elements of Planning*:—The relation of planning to external compositions, dimensions and arrangements, scale, aspect and prospect; (*b*) *Domestic Buildings*:—Residential architecture of all types, stables, garages, etc.; (*c*) *Ecclesiastical Art*:—Church plans in relation to the service; (*d*) *Special Types*:—Fire stations, baths, hospitals, schools, factories, libraries, etc.; (*e*) *Public Buildings*:—Town halls, municipal buildings, court houses, Parliament buildings, large halls. Prof. Nobbs.

Text-books:—The Principles of Planning Buildings, Marks.

Ornament and Decoration (48 lectures and 48 drafting periods), 9, 10, 11 and 12.

9. Decorative Heraldry. The place of heraldry in the arts; the laws of heraldry, heraldic art of different periods; modern practice and tendencies; symbolism and significant ornament. Prof. Traquair.

Text-book:—Decorative Heraldry, Eve. *Reference*:—The Art of Heraldry, Fox-Davies.

10. Ornament in Form. Plaster work, terra cotta, stone carving, architectural sculpture, wood carving and furniture design are dealt with from the point of view of the evolution of form in distinctive materials, influenced incidentally by the prevailing taste of different periods. Prof. Traquair.

Reference Books:—Plastering, Plain and Decorative, Millar; The Art of the Plasterer, Bankart; Mediæval Figure Sculpture in England, Prior.

11. Metal Work. Wrought iron, cast iron and bronze, beaten work in copper, brass and silver are dealt with technically and historically. Prof. Traquair.

Reference Books:—English and Scottish Wrought Iron Work, Murphy; Ironwork, Starkie Gardner; Leadwork, Lethaby.

12. Colour Decoration. Stained glass, mosaic of various kinds, inlays, the use of coloured materials in external and internal design, mural decoration, and the analysis and construction of pattern. Prof. Traquair.

Reference Books:—Vitraux, Merson; Windows, Day.

C.—Archæology.

13. General History. Mediæval and Modern Europe (50 lectures).

For particulars of the course, which constitutes the second year history course in the Faculty of Arts, see page 138. Prof. Fryer.

14. Ancient and Classic Architecture (48 lectures).

The architecture of the ancient Egyptians, Chaldæans, Assyrians and Persians; the Minoan civilization; architecture of the Dorian and Ionian Greeks, with special attention to the refinement of form in Hellenic art; the architecture of Rome and Byzantium to the fall of the Byzantine Empire. Prof. Traquair.

Text-books:—Banister Fletcher's History of Architecture; Anderson and Spier's Architecture of Greece and Rome.

15. Mediaeval Architecture (48 lectures).

The rise of the Romanesque schools, from the decline of the Western Roman Empire to the XI century; the evolution of ecclesiastical architecture in France and England to 1500 A.D.; the Gothic schools of Europe and the evolution of military and civil architecture. Prof. Traquair.

Text-book:—Power's Mediæval Architecture.

16. Renaissance Architecture (48 lectures).

The beginning of the Renaissance in Italy and its influence on architecture from 1400 A.D. to 1600 A.D.; the Renaissance in France from Francis I to the Revolution; the earlier and later phases of the Renaissance in England and English architecture during the XVIII century. Prof. Traquair.

Text-books:—Anderson's Italian Renaissance Architecture; W. H. Ward's French Renaissance Architecture; R. Bloomfield's Short History of Renaissance Architecture in England.

17. Modern Architecture (48 lectures).

The Gothic revival in England; the influence of Pugin, Ruskin and Morris and the Preraphaelites; the Arts and Crafts movement; the Eclectic schools; Shaw and the Free-Classicists; taste in Europe during the XIX century; the classic schools and the official school; the national revivals in Russia and Germany; the Secession and the "Art Nouveau"; the colonial traditions of New England and the Spanish and French districts; the Beaux Arts influence; the English influences; the Modern School; city planning in Europe and America; the Historic Architecture of Quebec and Canada. Prof. Traquair.

D.—Science.

MATHEMATICS 192, 193, 194, Algebra (for the first term only), Trigonometry and Mechanics. For full particulars, see page 231.

42 and 43. PHYSICS AND PHYSICS LABORATORY (48 lectures and 24 periods).

The instruction includes a fully illustrated course of experimental lectures on the general principles of physics, embracing the laws of energy, heat, light, electricity and sound. Prof. Eve.

346, 347 and 348. SURVEYING. (Full course: 4 weeks field school, 48 lectures and 24 draughting periods, see page 247.)

22 and 23. HYGIENE OF BUILDINGS. (24 lectures in first term, 12 lectures and working out of one graphical problem in second term.)

22. Light and air, water, sanitary plumbing, sewage disposal. First term. Dr. Starkey.

23. The heating and ventilation of buildings. Second term. Prof. McKergow.

E.—Construction.

The second year work covers the ordinary building trades and detailing where calculations of a complicated kind are not involved. The third year work deals with structural problems involving calculation, while in the fourth year problems in structural design are worked out.

24 and 25. BUILDING CONSTRUCTION AND BUILDING DETAIL (24 lectures, 48 draughting periods).

Building materials, brickwork, masonry, carpentry, roofing, etc.; joinery of doors, windows, etc., and the finishing trades, such as plastering, painting and plumbing; underpinning, shoring, centering and forms. General working drawings are prepared, and building works in progress are visited. Mr. Turner.

26 and 27. STRUCTURAL ENGINEERING I AND STRUCTURAL ENGINEERING (Draughting) I (48 lectures and 24 draughting periods). Graphical methods of calculating and the strength of materials employed in construction. Mr. Thomson.

28 and 29. STRUCTURAL ENGINEERING II AND STRUCTURAL ENGINEERING (Draughting) II (24 lectures and 48 draughting periods).

Theory of masonry arches and domes, steel construction in trusses and mill-building columns, girders, wind-bracing and fire-proofing. Specifications for and inspection of structural steel work. Mr. Thomson.

30 and 31. STRUCTURAL ENGINEERING III AND STRUCTURAL ENGINEERING (Draughting) III (24 lectures and 48 draughting periods).

Theory and practice of reinforced concrete; foundations and retaining walls. Mr. Thomson.

Structural Engineering II, and Structural Engineering III, with the draughting periods allotted to each, are taken by the third and fourth years together, and are given in alternate years.

F.—Architectural Practice.

131. English Composition (24 lectures with exercises).

Instruction is provided with the Applied Science first year classes. (See page 227). Mr. Latham.

31. Professional Practice (24 lectures with exercises).

Structure of specifications and general clauses; specifications for all trades; conditions of contract; agreements; building by-law; estimates, reports, professional ethics. Mr. Turner.

175. Engineering Law (24 lectures).

Instruction is provided with the Applied Science fourth year classes (see page 230).

G.—Drawing.

32, 33, 34 and 35. Architectural Drawing (84 periods of three and four hours).

The work in this course is in direct connection with the lectures in archæology.

32. Drawings of the Classic orders are prepared direct from the large models in the museum, and arch, vault, dome and roof diagrams are also prepared from documents.

33. Drawings of the Greek orders are prepared with special reference to their structural development and design. Restorations of classic buildings are prepared from the documents in the reference room.

34. Examples of mediæval architecture are studied; sketch plans and elevations of important works are set up, and detail drawings are prepared from documents.

35. A special study is made during the first term of Italian Renaissance examples; the XVI century architecture of France and England and late examples of French or English fully developed Classic are studied. Mr. Carless.

36. Historical Drawing. The advanced study of one or more buildings of an historical style by means of large scale drawings.

37, 38, 39, 40. Freehand Drawing (48 periods).

Drawing in pencil or charcoal from casts of architectural ornament, architectural fragments and parts of the figure. Mr. Dyonnet.

18. Architectural Geometry I. (24 lectures and 24 periods).

Geometrical drawing and descriptive geometry, shades and shadows in their application to architectural forms and the intersections of geometrical solids. Mr. Carless.

19. Architectural Geometry II (24 periods with occasional explanatory lectures).

A continuation of (18) to include perspective and elementary rendering. Mr. Carless.

41 and 42. Modelling (one period a week of two hours, extended over the fourth and fifth years).

The student first studies form directly from nature, and later on conventionalizes the forms with which he has become familiar for decorative purposes. The Architectural museum affords many examples from different periods of the adaptation and abstraction of natural motifs in ornament. They are used to show the spirit in which to work out ornament, and are not copied directly. Models of design on which the students are engaged are also prepared, and casting is taught. Mr. Dyonnet.

44, 45, 46, 47. An essay on an historical or theoretical subject is required from all students excepting those of the first year. This essay is to be prepared during the session.

48. Summer Work.

During the vacation following the close of the first, second and third years, the students in Architecture are required to read and be prepared to pass an examination on a selected theoretical, æsthetical, or historical architectural work, and in addition to this, to spend at least five weeks in the office of some architect or contractor; the period of such employment to be certified by a letter from the employer. For the students who for any reason find it impracticable to do office work, the substitution of thirty-five reasonably large free-hand sketches, rendered in any desired medium, will be considered an equivalent.

For summer reading, see page 205.

DEPARTMENT OF CHEMISTRY.

PROFESSOR:—R. F. RUTTAN.

ASSOCIATE PROFESSORS:—
- NEVIL NORTON EVANS.
- F. M. G. JOHNSON.
- V. J. HARDING.

ASSISTANT PROFESSORS:—
- V. K. KRIEBLE.
- OTTO MAASS.

LECTURER:—A. R. M. McLEAN.

DEMONSTRATORS:—
- G. S. WHITBY.
- C. GREAVES.
- W. McG. MITCHELL.
- C. A. WRIGHT.
- J. F. LOGAN.
- G. M. FOWLER.
- L. AMDUR.
- W. F. EMMONS.

Second Year Lectures.

51. (See also 75.) GENERAL CHEMISTRY. The course includes the history, properties, methods of preparation of the most important elements and compounds, with their industrial applications; classification; general laws and principles; and the fundamental theories of the science. Three hours a week for all students in Engineering. Professor Evans.

Text-book:—Macpherson and Henderson, General Chemistry.

54. INORGANIC QUALITATIVE ANALYSIS. A course dealing with the principles of analytical chemistry—nature of solutions, precipitation, etc., explanatory of the work done in the laboratory (course 55). One lecture a week in the second term, or five lectures a week for the first three weeks of the summer session. Professor Evans and Mr. Amdur.

Text-book:—W. A. Noyes' Qualitative Analysis. *Reference*:—Stieglitz, Qualitative Chemical Analysis.

Second Year Laboratory.

52. GENERAL CHEMISTRY LABORATORY. Practical work designed to accompany and illustrate the lectures of course 51. The course includes the construction and use of ordinary apparatus, the preparation and study of important elements and compounds, qualitative analysis, and simple quantitative determinations, both gravimetric and volumetric, including combining weights, standardisation of solutions, hardness of water, etc., one period for all students of Engineering. Professor Evans and Messrs. Mitchell and Fowler.

55. INORGANIC QUALITATIVE ANALYSIS LABORATORY. An extended course. Four periods a week in the second term, for students of the Chemistry and Metallurgy Courses; or equivalent time in the Summer

School for students of the Chemical and Metallurgical Engineering Courses. Professor Evans and Mr. Amdur.

Text-books:— W. A. Noyes' Qualitative Analysis.

Third Year Lectures.

56. Organic Chemistry. A course in general elementary organic chemistry. Three lectures a week during the first term and two during the second term. Drs. Ruttan and Krieble.

Text-books:—Perkin and Kipping's *or* Remsen's Organic Chemistry.

58. Physical Chemistry. An introductory course following the development of chemical theory, including vapour densities, molecular weights, the mass law and the phase rule.

Two lectures a week during the first term. Dr. Maass.

Text-book:—Theoretical and Physical Chemistry, Bigelow.

59. Inorganic Qualitative Analysis. A course explanatory of the work done in the laboratory. One lecture a week in the second term for Mining Engineers only. Professor Evans.

Text-book:—W. A. Noyes' Qualitative Chemical Analysis.

61. Inorganic Quantitative Analysis. A course on the general principles involved in quantitative analysis. One lecture a week during the first term of the third year. Dr. Johnson.

Text-book:—Cumming and Kay. *For Reference*:—Treadwell's Quantitative Analysis.

Third Year Laboratory.

57. Organic Chemistry. A course on the preparation, detection and analysis of the commoner organic compounds. Two periods a week in the second term. Dr. McLean and Mr. Whitby.

Text-book:—Gattermann's Organic Preparations.

60. Inorganic Qualitative Analysis. A course adapted to the requirements of Mining Engineers. Two periods a week in the second term. Professor Evans and Mr. Amdur.

62. (See also 76.) Inorganic Quantitative Analysis. An extensive course on gravimetric and volumetric method. Three periods per week for Chemical Engineers (Course III.) Dr. Johnson and Mr. Greaves.

Text-book:—Cunningham and Kay, Quantitative Analysis.

Fourth Year Lectures and Laboratory.

73. Organic and Food Chemistry. A course on the constitution and analysis of proteins, carbohydrates, fats and allied substances. The course also includes the estimation of food values, enzyme action and colloidal chemistry. A course of one lecture per week and three

laboratory periods during the second term. Dr. Ruttan, Dr. Krieble and Mr. Whitby.

Text-book:—Leach, Food Inspection and Analysis.

64. Advanced Organic Chemistry. During the autumn term the course comprises the development of general theoretical organic chemistry, and a series of special lectures on the carbohydrates and the terpenes.

The winter term is devoted to the organic chemistry of nitrogen, including the proteins, purins, alkaloids, etc. Drs. Ruttan and Harding.

Text-book:—Perkin and Kipping's Organic Chemistry. *For reference*:—Recent Advances in Organic Chemistry, Stewart; Advanced Organic Chemistry, Cohen; Organic Chemistry of Nitrogen, Sidgewick.

65. Advanced Organic Laboratory. This course includes the application of the important general organic reactions, quantitative organic determinations, a study of the improvement in conditions of reaction and the preparation of some typical organic dyes and synthetic drugs. Drs. Krieble, MacLean and Mr. Whitby.

The student is required during this course to take a complete course in gas analysis under Dr. Johnson.

66. Physical Chemistry. Two lectures a week on general physical chemistry, including the kinetic theory, thermo-chemistry, electron theory in chemistry, chemistry of radioactive substances, etc.

Students will be required to work problems dealing with the subject matter of the lectures.

Two laboratory periods a week in the first term are devoted to typical physico-chemical measurements. One laboratory period a week during the second term is devoted to physical chemical methods of analysis. Dr. Maass.

Text-books:—Nernsts' Theoretical Chemistry; Findlay's Physico Chemical Measurements.

For Reference:—Ramsay's Text-books of Physical Chemistry.

67. (See also 77.) Inorganic Laboratory. The lectures deal with the special methods of analysis of iron and steel, alloys, gas and water. One lecture and four periods a week in the first term and five periods in the second. For Chemical Engineering students. Dr. Johnson and Mr. Greaves.

The laboratory work is a continuation of courses 61 and 62 and is adapted both in extent and in subject matter to the needs of individual students, various other courses being allowed as partial alternatives.

For reference:—Lord and Demorest, Quantitative Analysis; Treadwell's Quantitative Analysis; Blair, Chemical Analysis of Iron; Brearley and Ibbotson, Analysis of Steel Works Materials.

68. Industrial Chemistry, Inorganic. A course, both theoretical and descriptive, on the more important inorganic chemical industries. Special lectures are given by chemical engineers from outside the University during the first term, and visits to works are made during the session. Dr. Johnson.

69. Industrial Chemistry, Organic. This course is given during the second half of the session, and includes the chemistry of paper and pulp, sugar, starch and glucose, soap and fats, distillation of wood and the purification of the products, etc. This course is given by Dr. Ruttan, with special lectures by several chemical engineers from the city and district who are specialists in one or other of the industries.

70. Applied Electro-Chemistry. The laws of electrolysis and of solutions are studied from the standpoint of the osmotic theory. Primary and secondary batteries, electro-plating, polarisation and the preparation and electro-chemical behaviour of the rarer elements used in incandescent lamps are discussed. The more important technical processes are studied and typical substances prepared in the laboratory. Two lectures in the first term. Dr. Maass.

For reference:—Le Blanc, Elements of Electro-chemistry; Blount, Practical Electro-chemistry.

71. Mineral Analysis. A laboratory course specially designed for Mining Engineers. Four periods a week in the first term. Dr. Johnson and Mr. Greaves.

Text-book:—Lord and Demorest, Quantitative Analysis. *For reference*:—Olsen's Quantitative Analysis.

72. Advanced Inorganic Chemistry. A course of lectures on inorganic chemistry, discussing the elements and their compounds in accordance with the general principles of physical chemistry.

Two lectures a week throughout the session. Dr. Johnson.

74. History of Chemistry. A short course dealing with the development of chemistry from the historical standpoint. One lecture a week in the second term. Dr. Maass.

76. Inorganic Quantitative Analysis. This course is similar to course 62, but is more extended. Six periods per week for chemists. Dr. Johnson.

77. Inorganic Laboratory. This course is similar to course 67, but is extended to include special preparations. One lecture and six periods in the first term and seven periods in the second for chemists. Dr. Johnson.

DEPARTMENT OF CIVIL ENGINEERING AND APPLIED MECHANICS.

PROFESSORS:—H. M. MACKAY. E. BROWN.
ASSOCIATE PROFESSOR:—C. BATHO.
ASSISTANT PROFESSOR:—H. M. LAMB.
LECTURERS:—R. DE L. FRENCH. G. J. DODD. R. E. JAMIESON.
ASSISTANT IN CHARGE OF TESTING LABORATORY:—S. D. MACNAB.
DEMONSTRATORS:—_____ _____

Second Year.

81. MATERIALS OF CONSTRUCTION. Manufacture and properties of cast iron, wrought iron, crucible, bessemer and open hearth steel; principal alloys; considerations governing selections of materials; manufacture and properties of Portland and natural cements; limes; concrete; stone and brick masonry; principal kinds of timber used for engineering purposes; preservation of timber; discussion of standard specifications.

Required of all engineering students. One hour per week. Prof. MacKay.

83. MECHANICS. The general principles of statics and of the dynamics of a particle are developed in the lectures, and numerous examples illustrating the application of mechanics to engineering problems are worked out.

The course includes the following:—*Statics* (analytical and graphical) comprising equilibrium of forces; funicular and force polygons; centre of gravity; bending moment and shear; forces in framed structures; friction; hydrostatics. *Dynamics* comprising work, power, energy; relative velocity; impact of jets; variable motion, both straight line and curvilinear (with graphic methods); curved track, conical pendulum, balancing; motion under variable force; simple harmonic motion (pendulums and oscillation of springs); velocity and acceleration in machines, inertia forces, crank effort diagrams; moment of inertia, fly-wheels, etc.

The mathematical courses in calculus are taken concurrently, and calculus methods are used freely. Four hours per week. Prof. Brown, Dr. Batho, Mr. Lamb and Mr. Jamieson.

Text-book:—Morley, Mechanics for Engineers.

Third Year.

86. MECHANICS. The work of the second year course in mechanics is extended, and the dynamical equations for the motion of a rigid body in two dimensions are deduced. Numerous examples

are worked in detail, including problems on fly-wheels, kinetic energy of bodies having translation and rotation, oscillation of a rigid body about a fixed axis, impulse, etc. The elementary principles of the gyroscope are considered. Two lectures per week, first term. Prof. Brown and Dr. Batho.

Text-book:—Morley, Mechanics for Engineers.

87. Strength of Materials. This course deals with the fundamental principles of the strength of materials. It includes the following:—Stress, strain, resilience, and the elastic properties of materials used in construction; bending moment and shearing force diagrams; strength, curvature, and deflection of beams; continuous beams; cantilever beams and the like; simple problems on rolling loads; reinforced concrete beams; the strength of shafting; spiral springs; columns; bending combined with tension or compression; elementary consideration of compound stresses; distribution of shearing stress on various sections, etc.

Required of all engineering students. Two lectures per week during session. Prof. Brown, Dr. Batho and Mr. Lamb.

Text-book:—Morley, Strength of Materials.

88. Strength of Materials Laboratory. The work is arranged to illustrate the principles of the lecture course in strength of materials (87), and includes the following:—Tension tests of various materials in 100-ton and 30-ton testing machines; determination of stress-strain diagrams by automatic recorders and by extensometers and scales; deflection of beams, wood and metal; torsion of shafts; deflection and vibration of spiral springs and torsional oscillations of wires; the moment of inertia of fly-wheels by oscillation and falling weight tests; determination of Young's modulus for various materials; complete tests of Portland cement; efficiency of chain blocks, experiments on tension and twisting of wires; bending combined with torsion as in shafting; together with demonstrations on the large testing machines of tensile tests of various materials, the breaking of timber and reinforced concrete beams and small columns, the compressive strength of concrete, bricks, mortars, etc. Three hours per week, second term. Prof. Brown, Dr. Batho, Mr. French.

89. Foundations and Masonry. Borings; bearing power of soils; piles and pile driving; concrete piles; footings; grillages; underpinning; foundations under water; cofferdam, open dredging, pneumatic and freezing processes; estimation of quantities from drawings; estimates of costs.

Required of Civil Engineering students. Four hours per week, second term. Prof. MacKay, Mr. Dodd.

Text-book:—Foundations of Bridges and Buildings, Jacoby and Davis.

90. Structural Design. Problems in the design of beams, plate girders, columns, roof trusses, knee bracing, etc.; working drawings; reinforced concrete; estimates of quantities; estimates of cost. Required of Students in Courses III, IV, VI, VII and IX. Four hours per week, second term. Mr. Lamb and Mr. Jamieson.

Reference Books:—Ketchum's Structural Engineer's Handbook; Morris, Structural Design; Cambria Steel.

92. Railway Engineering. The locomotive and its work; locomotive and grade problems; effect of distance, rise-and-fall and curvature on train mile costs; estimate of probable receipts and expenditures; economics of location, reconnaissance, preliminary, and location surveys; turnouts, yards and terminals; details of construction; materials of construction. Required of Civil Engineering students. Two hours per week. Mr. Lamb.

93. Railway Engineering. The paper location of a railway, map, profile, earthwork, mass diagram, overhaul, velocity profile, bill of material and cost estimate of same; the design of a freight yard, detailing of switches and complicated lay-outs and bill of track material. Required of Civil Engineering students. Six hours per week. Mr. Lamb.

97. Hydraulics. The fundamental principles of hydraulics are considered and applied to problems on the discharge of orifices, notches, weirs, pipes and open channels under varying conditions. The theory of impact of jets and its application to turbines is also dealt with. Required of Civil Engineering students in the third year and of Mechanical and Electrical Engineering students of the fourth year. Two hours per week, first term. Prof. Brown.

Text-Book:—Hydraulics and its Applications, Gibson.

98. Hydraulic Laboratory. The course is illustrative of the principles considered in course 97, and is taken concurrently. The work includes the following experiments:—Measurement of discharge from orifices, notches and pipes, both straight and bent, to determine hydraulic coefficients; pressure of jets impinging on vanes; tests of Venturi meter, hydraulic ram, Pelton wheel, Girard impulse turbine, etc. Three hours per week, first term. Prof. Brown, Dr. Batho, Mr. French.

Fourth Year.

94. Theory of Structures. The analysis of statically determinate framed structures under fixed and moving loads; distortion of framed structures; swing spans; braced arches and arched ribs with two and three hinges; hingeless arches in concrete and reinforced concrete; frames with redundant members.

Required of Civil Engineering students. Four hours per week, first term; eight hours per week, second term. Prof. MacKay, Mr. Jamieson.

Reference Books:—Johnson, Bryan and Turneaure's Modern Framed Structures; Marburg, Stresses in Structures.

95. Strength of Materials. The course includes the following:—The bending and deflection of beams loaded in any manner; beams continuous over several supports at the same or different levels; distribution of shear and deflection due to shear; principle of work applied to deflection of beams, trussed beams and some statically indeterminate problems; bending of curved bars, and of unsymmetrical sections such as single angles, etc.; elastic strains; relation between elastic constants; strength of thick shells; earthwork theories; suspension cables; the design of floor and column systems for reinforced concrete buildings (including a critical study of standard specifications); retaining walls, etc.

Required of Civil Engineering students. Two lectures per week during the first term, and one per week during second term, with the equivalent of one-half laboratory period per week throughout the session at times appropriate to the progress of the course. Prof. Brown.

Text-books:—Strength of Materials, Morley; Reinforced Concrete, Taylor and Thompson, or Reinforced Concrete Construction, Vols. II and III, Hool, or Reinforced Concrete Handbook, Hool and Johnson.

96. Bridge Design. The reason governing the selection of a particular type of bridge; discussion of the loads to which the bridge will be subjected; calculation of the stress in the several members; determination of the sectional areas and forms of the members; design of the connections; preparation of complete drawings.

Required of students in Civil Engineering. Eight hours per week. Prof. MacKay, Mr. Dodd.

Reference books:—Kirkham's Structural Engineering; Ketchum's Structural Engineer's Handbook; Waddell's Bridge Engineering.

99. Hydraulic Machines. The course includes the application of the principles of hydraulics to the determination of formulæ for the design of turbines and centrifugal pumps. Examples are worked showing the methods of finding the leading dimensions of different types of such machines. Representative machines and methods of regulation, etc., are considered in detail. The transmission of power by hydraulic pressure is also considered, and the functions of the accumulator are dealt with, along with the influence of inertia forces in the operation of such machines as reciprocating motors, pumps, riveters, etc. Two hours per week, second term. Prof. Brown.

Text-book:—Hydraulics and Its Application, Gibson.

101. Hydraulics and Laboratory. A short course embodying the hydraulic principles outlined under courses 97 and 98 will be given in the first term. There will be one lecture per week, and six or more laboratory periods at hours to be arranged. Required of Mining, Metallurgical and Chemical Engineering students of the fourth year. Dr. Batho.

Text-book:—Slocum, Elements of Hydraulics.

100. Municipal Engineering. (*a*) *Sewerage.* General methods and economic considerations; quantity of sewage; storm water run-off; design of sewers and appurtenances; manholes; flush tanks, catch basins, overflows, outlets, siphons, etc.; construction methods, materials and costs; estimates; maintenance and management; problems in design and estimating. (*b*) *Sewage Disposal.* Physical, chemical, biological and economic aspects of sewage treatment; disposal by dilution; screening, sedimentation, filtration, disinfection, etc.; maintenance and management. (*c*) *Water Supply.* Quantity, quality and pressure required; rainfall and evaporation; pumping machinery; storage; aqueducts, pipe lines and distribution systems; appurtenances —valves, hydrants, etc.; purification systems; fire service; construction methods; materials and costs; estimates; problems in design and estimating. (*d*) *Roads and Pavements.* Highway economics; surveys and location; grades; cross sections; paving materials, bituminous, stone, brick, wood, concrete, etc.; construction methods; street cleaning and repairs; estimates; problems in design and estimating. (*e*) *Waste Disposal.* Composition and quantity of city wastes, ashes, garbage, rubbish, etc.; collection; disposal, dumping, land treatment, incineration, reduction, feeding to swine, etc.; costs and returns.

Required of Civil Engineering students in the fourth year. Two hours per week, first term, and five hours per week, second term. Mr. French.

Text-books:—Turneaure & Russell, "Public Water Supplies"; Metcalf & Eddy, "American Sewerage Practice," Vols. 1 and 3.

References:—Folwell, "Sewerage"; Flinn, Weston and Bogert, "Water Works Engineers' Handbook"; Blanchard and Drowne, "Highway Engineering."

105. Technical Elasticity. The application of Castigliano's Theorem and the Method of Least Work to rectangular frames; beams on elastic supports; reinforced concrete structures, etc.; the theory of riveted joints; Bryan's theorem with applications to the calculation by successive approximations of columns with various types of loading, lateral loads and intermediate supports; comparison with other methods; elastic stability; the vibration of structures; the general equations of elasticity with various applications, special attention being paid to approximate numerical solutions; the strength of

flat plates, etc.; the torsion of thin tubes and prisms of non-circular cross-section; the determination of stress distribution by means of polarized light. For graduates. Dr. Batho.

106. Theory of Structures. Secondary stresses due to rigidity of joints, eccentric connections, deflection of floor beams, etc.; frames with redundant members; influence lines for arches and other statically indeterminate structures; critical discussion of specifications for built up members in the light of tests. For graduates. Professor MacKay.

DEPARTMENT OF DESCRIPTIVE GEOMETRY AND FREEHAND DRAWING.

Associate Professor:—Henry F. Armstrong.

Demonstrators:— W. Carless. H. A. Cater. G. F. Alberga.

This Department provides a general course in drafting office methods and a training in the ground-work necessary to prepare the student for the work required in the Engineering courses of the third and fourth years. The accurate use of drawing instruments is practised and study is made of the various projection methods commonly employed. The problems in Descriptive Geometry are especially designed to develop the power of mentally picturing unseen objects and grasping groups of details.

First Year.

341. Descriptive Geometry. Geometrical methods; plane figures; areas; paths of points moving in planes, etc.; projections of points, lines, plane figures and solid objects; shadows, etc.

Three hours per week. Professor Armstrong.

Text-books:—Geometrical Drawing by H. F. Armstrong; Descriptive Geometry by H. F. Armstrong.

342. Freehand Drawing. The object of this course is to train the eye to observe and the hand to record the essential characteristics and proportions of objects by means of sketches and diagrams of machines, etc., and to prepare dimensioned sketches from which to make scale drawings.

One hour and a half per week. Professor Armstrong.

343. Lettering. Types and titles such as are chiefly in use in draughting offices, including single-line, block and Roman lettering, and stencils.

One hour and a half per week. Professor Armstrong.

Second Year.

345. Descriptive Geometry and Perspective. Intersections of surfaces; intersecting planes; tangent planes; axometric, including isometric, projections; perspective projection.

Three hours per week. Professor Armstrong.

Text-book:—Descriptive Geometry, Henry F. Armstrong.

DEPARTMENT OF ELECTRICAL ENGINEERING.

Professor:—L. A. Herdt.
Associate Professor:—C. V. Christie.
Assistant Professor:—E. G. Burr.
Lecturer:—G. A. Wallace.
Demonstrators:— J. W. Bain.

Third Year.

113. Electrical Engineering. The theoretical consideration of current flow in circuits; the laws of electro-magnetism and of the magnetic circuit; the theory and operating characteristics of direct current machinery; the principles of alternating current machinery. Required of students in Electrical Engineering. Three hours per week Professor Christie.

Text-book:—Christie's Electrical Engineering.

114. Electrical Engineering Laboratory. Preparation of reports; construction, handling and protection of electrical apparatus; use of instruments and precision of measurements; predetermination of the characteristics of electrical machinery; special and shop testing.

Tests are made in the Laboratory on:—Current flow in circuits; metering and controlling devices, generators, motors, boosters, balancers and motor generator sets; arc and incandescent lamps; reflectors. These tests are intended to illustrate the principles of action and the limits of the proper use of the apparatus. Students are furnished with special laboratory notes. Required of students in Electrical Engineering. Laboratory, six hours per week. Problems, two hours per week.

111. Elements of Electrical Engineering, for third year students in Mechanical Engineering and fourth year students in Civil and Mining Engineering.

A general course in electrical engineering, treating of the laws of electro-magnetism; continuous and alternating current flow in various circuits; characteristics of direct and alternating current machinery; the fundamental principles of electric lighting, power distribution and electric traction. Two hours per week. Mr. Burr. First and second terms.

Text-book:—Gray's Principles and Practice of Electrical Engineering.

112. Electrical Engineering Laboratory, for third year students in Mechanical Engineering and fourth year students in Civil and Mining Engineering.

Includes tests of direct current metering and controlling devices, dynamos, motors, boosters, motor generators and constant current machines; experiments of variable current flow in circuits; tests of alternators, synchronous motors and converters, induction motors and transformers, etc. Three hours per week. First and second terms.

Fourth Year.

117. Electrical Engineering. The treatment of alternating current circuits by vector diagrams and vector equations; the theory and operating characteristics of alternating current machinery. Required of students in Electrical Engineering. Three hours per week. Professor Christie.

Text-book:—Christie's Electrical Engineering.

118. Electrical Engineering Laboratory. Tests are made in the laboratory on alternators, synchronous motors and converters, compensators, induction motors, transformers, frequency and phase changing apparatus, potential regulators, rectifiers, etc. Students are furnished with special laboratory notes. Required of students in Electrical Engineering. Laboratory, nine hours per week.

120. Electric Lighting and Power Distribution. The design and operation of power plants and substations. Transmission and distribution systems are taken up under the following heads:—Selection of generators, transformers, switches and auxiliary apparatus with a study of their characteristics and limitations; wiring diagrams and switchboard design; line design and construction, selection of towers, insulators and conductors, calculation of sags and spans; high voltage and transient phenomena; the protection of overhead lines, cable systems and station apparatus; industrial applications of electrical apparatus; financial considerations. This subject is required of students in Electrical Engineering. Two hours per week, first term. Dr. Herdt.

Text-book:—Standard Handbook for Electrical Engineers.

121. Electric Traction. Urban, inter-urban and main line electrification is taken up under the following heads:—Choice of system and apparatus; calculation of motor rating and car equipment; overhead and track construction; methods of control braking and regeneration; storage batteries and boosters; financial considerations.

This subject is required of students in Electrical Engineering. Two hours per week, second term. Dr. Herdt.

Text-book:—Standard Handbook for Electrical Engineers.

122. Electrical Design. The electrical design of direct and alternating current machinery. Special attention is paid to the limitations of the different types of machines and to the preparations of specifications. Required of students in Electrical Engineering. Lectures, two hours per week. Problem work, three hours per week. Professor Christie.

Text-book:—Gray's Electrical Machine Design.

123. Applications of Electricity. Lectures on industrial and general applications of electric power, the electrical supply systems for industrial power and lighting; special problems of plant design; special problems of lighting in electrical systems; special problems of electrical transmission; electrolysis mitigation for electric railways. Lectures, two hours per week. Second term. Draughting room, two hours per week. Mr. Burr.

124. Electrical Photometry and Illumination. Electric light production; photometry; illumination; principles of interior and street illumination. First term. Lectures, two hours per week. Draughting room, two hours per week. Mr. Burr.

ENGLISH.

Assistant Professor:—G. W. Latham.

131. English Composition. In view of the importance of accuracy of expression in the case of those engaged in scientific or professional work, a course on English composition is prescribed for all undergraduates of the first year. Students will be assigned to a section which will meet semi-weekly for practice and instruction in composition, and in addition will be called upon from time to time, in hours especially reserved for the purpose, for individual conferences with the instructor, in which such advice and assistance will be given as may seem advisable.

Students coming to McGill from schools or colleges where an equivalent amount of English instruction is given may apply for exemption from the above course. Applications for such exemption should be addressed to the Dean of the Faculty of Applied Science, not later than September 15th, and should be accompanied by certificates of standing and a certified syllabus of the courses taken. Students who consider themselves qualified for exemption but cannot produce satisfactory certificates as above, may come up for a special exemption examination to be held on Saturday, October 2nd, at 11 a.m. Candidates who present themselves for this examination in 1920 should be thoroughly prepared on Aydelotte's "English and Engineering", Sections VII to XVII inclusive.

In connection with this course the following text-books will be used:—Carpenter's "Rhetoric and English Composition" (Macmillan); Aydelotte's "English and Engineering" (McGraw-Hill Publishing Co.).

132. Summer Reading. Second Year. (See page 205.)

133. Summer Reading or Essay. Third Year. (See page 206).

134. Summer Essay. Fourth Year. (See page 206.)

DEPARTMENT OF GEOLOGY AND MINERALOGY.

Professors:— Frank D. Adams. J. Austen Bancroft.

Assistant Professor:—R. P. D. Graham.

Lecturer:— ————————

Sessional Lecturer:—John A. Dresser.

Demonstrator:—E. Ardley.

Third Year.

141. General Geology. The lectures will embrace a general survey of the whole field of geology and will be introduced by a short course on mineralogy. Especial attention will be devoted to dynamical geology and to historical geology, including a description of the fauna and flora of the earth during the successive periods of its past history, as well as to the economic aspects of the subject.

The lectures will be illustrated by the extensive collections in the Peter Redpath Museum, as well as by models, maps, sections and lantern slides. In addition to the lectures there will be a demonstration each week. Dr. Adams.

Text-book:—Scott, An Introduction to Geology.

142. Mineralogy. The lectures and demonstrations, illustrated by specimens and models, deal mainly with the description and means of identification of species, special attention being paid to the ores and economic minerals and to those which are important as rock constituents. The earlier lectures are devoted to a brief discussion of the geometrical and physical properties of minerals; their chemical composition; calculation of formulæ, etc.; and the principles of classification. Mr. Graham.

143. Determinative Mineralogy. Laboratory practice in blowpipe analysis and its application to the determination of mineral species. Mr. Graham.

Fourth Year.

146. Petrography. The modern methods of study employed in petrography are first described, and the classification and description of rocks is then taken up.

In addition to the lectures, one afternoon a week during the second term will be devoted to practical work in the petrographical laboratory Dr. Bancroft and Mr. Graham.

147. Advanced Petrography. This is a more advanced course than 146. In addition to the lectures, an afternoon throughout the year will be devoted to practical work in the petrographical laboratory. Dr. Bancroft.

Text-book:—Harker's Petrology for Students.

The petrographical laboratory is open to fourth year Mining students.

148. Ore Deposits and Economic Geology. The nature, mode of occurrence and classification of ore deposits will first be taken up. A series of typical occurrences will then be described and their origin discussed. The more important non-metallic materials, *e.g.*, fuels, clays, building stones, etc., will be similarly treated, as well as questions of water supply, artesian wells, etc. The structure of the earth's crust, more especially with reference to folding, faulting and igneous intrusion in their bearing upon mining, will then be considered, and the course will close with a discussion of the methods employed in carrying out geological and magnetic surveys and in the construction and interpretation of geological maps and sections.

Dr. Bancroft will lecture on economic geology in the first term, and Dr. Adams on ore deposits in the second term.

Text-books:—Geikie, Outlines of Field Geology; Kemp, Ore Deposits of the United States and Canada; Lindgren, Mineral Deposits; Beck and Weed, The Origin and Nature of Ore Deposits.

Books of Reference:—The Reports of the Geological Survey of Canada, and the Publications of the U.S. Geological Survey.

149. Geology of Canada. A general description of the geology and mineral resources of the Dominion. Dr. Bancroft.

151. Crystallography. A short course of lectures for students in chemistry, with laboratory practice in the measurement and drawing of crystals; calculation of axial ratios, etc.; use of the polarising microscope, axial angle apparatus, etc. Mr. Graham.

152. Historical Geology. This is a continuation of course 141, and will consist of lectures, colloquia and museum work extending throughout the session. Dr. Bancroft.

153. Field Work. The students in mining will receive a course of instruction in geological mapping and field work—extending over one week—in connection with the summer school of mining. Dr. Bancroft and Mr. Graham.

154. Field Work. During the ten days immediately preceding the opening of the fall term, a special course in the field methods employed in a geological survey will be given for those students who elect the geological option in the fourth year of the Mining course. Dr. Bancroft and Mr. Graham.

Note.—Students of the Mining and Chemistry courses take all the mineralogy of the third year. Chemistry students, in addition to the geology of the third year, may take the mineralogy of the fourth year.

LAW AND ECONOMICS.

Professor of Law:—R. W. Lee.

Professor of Economics:—Stephen Leacock.

Lecturers on Economics:—{ Frederick B. Brown. B. K. Sandwell.

171. Economics. This course is intended to give a general survey of the economic functions of society as they will present themselves to the engineer. The lectures will deal with the production and distribution of wealth; the means by which these processes are effected; the means by which they are controlled and regulated by the state or the community; the various theories concerning their operation and regulation; their effect on society; labor and capital; theories of money and credit; prices; public finance and taxation. Two hours per week in the second term of the third year. Mr. Sandwell.

Text-book:—Walker's Political Economy.

172. Engineering Economics. This course is intended to familiarize the engineering student with the business aspect of his profession. With this in view, lectures will be given on the subjects of property and its transfer; money and credit; stocks and bonds; partnerships and corporations; the banking system; clearing house and trust companies; the formation, organization and financing of companies; operating costs and fixed charges; depreciation and obsolescence; analysis of balance sheet and of profit and loss accounts; valuations; estimates; specifications and contracts. Two hours per week in the first term of the fourth year. Mr. Brown and Mr. Sandwell.

175. Law for Engineers. This course is intended to present such an outline of the law as will be useful to engineers and business men. One hour per week in the fourth year. Dean Lee.

DEPARTMENT OF MATHEMATICS.

PROFESSOR:—D. A. MURRAY.

ASSISTANT PROFESSORS:— C. T. SULLIVAN. C. BATHO.

LECTURERS:— G. J. DODD. R. E. JAMIESON.

First Year.

191. GEOMETRY. Exercises in plane geometry, elements of solid geometry and of geometrical conic sections. First term. Dr. Sullivan, Mr. Dodd and Mr. Jamieson.

Text-book:—Hall and Stevens' School Geometry, Parts I-VI (Macmillan).

192. ALGEBRA. Miscellaneous theorems and exercises, exponential and other series, properties and solution of higher equations, complex numbers, graphical algebra with an introduction to analytic geometry, indeterminate forms, limits, derivatives, slopes of curves. First and second terms. Dr. Murray, Dr. Sullivan and Mr. Dodd.

Text-books:—Rietz and Crathorne's College Algebra (Holt & Co.); Tanner and Allen's Analytic Geometry (American Book Co.) (Macmillan).

193. TRIGONOMETRY. Plane and spherical. Second term. Dr. Sullivan, Mr. Dodd and Mr. Jamieson.

Text-book:—Murray's Plane and Spherical Trigonometry, with tables (Longmans).

194. MECHANICS. An elementary course in dynamics, statics, and hydrostatics. First and second terms. Dr. Sullivan, Dr. Batho, and Mr. Dodd.

Text-book:—Loney's Mechanics and Hydrostatics for Beginners (Cambridge University Press).

Second Year.

197. ANALYTIC GEOMETRY. The point, straight line, circle, parabola, ellipse and hyperbola, elements of geometry of three dimensions. First year (latter part of second term), and second year (first term). The second year work begins with the circle. Dr. Murray and Dr. Sullivan.

Text-book:—Tanner and Allen's Analytic Geometry (American Book Co.).

198. CALCULUS. Differentiation of functions of one or more variables, successive differentiation, tangents, etc., curvature, maxima and minima, integration, with application to areas, volumes, moments of inertia, etc. First and second terms. Dr. Murray and Dr. Sullivan.

Text-book:—Murray's Differential and Integral Calculus (Longmans).

Third Year.

201. Calculus. Elementary differential equations. Prescribed for Electrical Engineering students of the third year; optional for all others. First and second terms. Dr. Murray.

DEPARTMENT OF MECHANICAL ENGINEERING.

Associate Professors:— C. M. McKergow. A. R. Roberts.

Lecturers:— J. A. Coote. J. M. Fraser.

Demonstrators:— M. L. Walker. H. A. Cater. G. F. Alberga.

Shop Instructors:— G. Wooley. J. Stewart. H. Lane. W. Gatehouse.

First Year.

211. Mechanical Drawing. Instruction in the use of drawing instruments and materials, dimensioning, conventions and standards; preparation of working drawings and tracings of machine details and the detailing of assembly drawings. Required of all students, except architects. Six hours per week. Professor Roberts and assistants.

212. Carpentry and Wood-turning. Sharpening and care of wood-working tools; sawing, planing and paring to size; preparation of flat surfaces, parallel strips, and rectangular blocks; construction of the principal joints employed in carpentry and joiner work, such as end and middle lap joints, end and middle mortise and tenon joints, mitres, dado and sash joints; dovetailing; scarfing; joints used in roof and girder work; wood-turning; use of wood-turning tools. Required of all students, except architects. Three hours per week, sixteen weeks. Mr. Wooley.

213. Smith-Work. The forge and its tools; use and care of smiths' tools; management of fire; use of anvil and swage-block; drawing taper, square and parallel work; bending, upsetting, twisting, punching, and cutting; welding and scarfing. Required of all students, except architects. Three hours per week for eight weeks. Mr. Stewart.

214. Foundry Work. Moulders' tools and materials used in foundry work; the cupola; the brass furnace; preparations of moulding sand; boxes and flasks; core-making; use of core-irons; bench moulding; blackening, coring and finishing moulds; vents, gates and risers; floor moulding; open sand work; melting and pouring metal;

mixtures for iron and brass casting. Required of all students, except architects. Three hours per week for eight weeks. Mr. Lane.

215. Shop Methods. Brief study of woods and of hand and machine tools used in wood-working; manufacture and working of iron and steel; forge and forge tools; welding; stock calculations; steam hammer work; drop forgings; cupola practice; moulders' tools; elementary moulding and core-making. Required of all students, except architects. One half-hour per week. Mr. Fraser.

220. Machine-shop Work. Exercises in chipping; preparation of flat surfaces; filing to straight edge and surface plate, scraping, screwing and tapping; use of scribing block and surface gauge; marking off work for lathes and other machines; turning and boring cylindrical work to gauge; surfacing; screw-cutting and preparation of screw-cutting tools; machining flat and curved surfaces on the planing and shaping machines; drilling and boring; cutting angles and speeds; dressing and grinding tools. Required of all Engineering students. Three hours per week for sixteen weeks. Mr. Gatehouse.

Second Year.

218. Mechanics of Machines. (Second term). *Kinematics of machines.*—Constrained motion; kinematic pairing; velocity and acceleration in mechanisms; centrodes; analysis and classification of simple mechanisms, including the quadric crank chain, the slider crank chain and various wheel trains; design of involute and of cycloidal wheel-teeth. Professor McKergow.

Text-book:—Durley's Kinematics of Machines (Wiley).

221. Shop Methods. Tools; tool steels; forging, hardening and tempering; case hardening; grinding and abrasives; brazing and soldering; modern welding processes; fits and fitting; interchangeable processes of manufacture; lathe construction, adjustments and practice. Required of all Engineering students. One hour per week. Mr. Fraser.

Text-book:—Elements of Machine Work, R. H. Smith.

Third Year.

224. Mechanics of Machines. Relative motion and displacement; crank effort diagrams, fly-wheels and inertia forces; the mechanism of the simple slide valve and of expansion valves; solution of valve setting problems; the function and dynamics of governors; elements of engine balancing; friction and lubrication. Required of students in Mechanical and Electrical Engineering. Three hours per week. Mr. Coote.

Text-books:—Durley's Kinematics of Machines (Wiley); Ewing's Steam Engine (Camb. Univ. Press).

225. MACHINE DESIGN. Principles of the strength of materials as applied to the design of the part of machines; fastenings used in machine construction, bolts, screws, keys, cotters, rivets, and riveted joints; journals and bearings; shafts and couplings. Required of students in Mechanical and Electrical Engineering. Two hours per week. Professor Roberts.

Text-book:—Unwin's Machine Design, Part I (Longmans). *Book of Reference*:—Spooner's Machine Design (Longmans).

226. MECHANICAL ENGINEERING. General course in Mechanical Engineering of Power Plants and Prime Movers.

Fuel and combustion, steam boilers and steam production; corrosion and defects of boilers; boiler plants and accessories, principles of selection and arrangement; the steam engine; estimation of power developed; economy of steam machinery; the indicator; condensers, pumps and accessories; steam turbines; principles of design in steam plants; gas engines and gas producer plants, their selection, economy and arrangement; general conditions governing location and design of power installations. Required of all Engineering students, except those in Mechanical Engineering. Two hours per week. Professor McKergow.

Text-books:—Meyer, Steam Power Plants (McGraw); Duncan, Steam and other Engines (Macmillan).

227. MECHANICAL ENGINEERING. Fuel and combustion; steam boilers and steam production; boiler installation and operation; the indicator; the steam engine, steam distribution and economy; steam turbines; condensers and auxiliary machinery in steam plants; gas engines and gas producer plants; compressed air and refrigerating machinery. Required of students in Mechanical Engineering. Three hours per week. Professor McKergow.

Reference books:—Ripper, Heat Engines (Longmans); Neilson, Steam Boilers.

228. MECHANICAL ENGINEERING LABORATORY. Testing and calibration of indicators, brakes and other measuring instruments; investigation of the operation of brakes, dynamometers, and governors; test to determine the efficiency of belt and other transmission gearing; the properties of lubricants; the economy and performance of a steam engine and boiler, of a gas engine, of an air compressor, and of a pump. Required of all Engineering students, except those taking the Electrical Engineering course. Three hours per week. Professor McKergow and assistants.

Reference book:—Carpenter, Experimental Engineering.

223. MECHANICAL ENGINEERING LABORATORY.

First term, course same as 228; second term, experimental work on the relative value of throttling and expansion governors; effect on the economy of steam engine of changing from simple to compound,

triple, or quadruple expansion; the testing of steam boilers, producer gas engines, air compressors, steam turbines, and a complete steam power plant test. Required of students in Electrical Engineering. Six hours per week in first term and three hours per week in second term. Professor McKergow and assistants.

Reference book:—Carpenter, Experimental Engineering.

229. THERMODYNAMICS. Fundamental laws and equations of thermodynamics; their application to gases and to saturated superheated vapours; efficiency of ideal heat engines; properties of steam, and elementary theory of the steam engine; elementary theory of gas and hot air engines. Required of third year students in Mechanical and Electrical Engineering. Two hours per week. Professor Roberts.

Text-books:—Ewing, The Steam Engine and other Heat Engines (Camb. Univ. Press); Marks and Davis, Steam Tables. *Reference book*:—Ennis, Thermodynamics Applied to Engineering.

230. MECHANICAL DRAWING. Exercises in making sketches of machine parts and in preparing working drawings and tracings from them. This work may be required of Mechanical Engineering students. One week during summer term, between the second and third years. Mr. Coote.

231. MECHANICAL DRAWING. This course is supplementary to the course in machine design and consists of exercises in design and draughting of fastenings, machine parts and simple machines. Required of Mechanical Engineering students. Six hours per week for the first term and three hours per week for second term. Mr. Coote.

232. MECHANICAL DRAWING. A course similar to 231, but less extended. Required of Electrical Engineering students. Three hours per week.

233. SMITH WORK. Tool forging and tempering, using carbon and high speed steels; making lathe and planer tools; taps, dies, drills, and tools for the forge; special welding. One week during the summer term, prior to work in third year session. Required of Mechanical Engineering students. Mr. Stewart.

234. FOUNDRY WORK. Moulds requiring a higher degree of skill and judgment than elementary course; special methods of strengthening the mould; coating for smooth surfaces on castings; methods of avoiding defects; cupola charging and operating; core mixtures and core making; coring moulds. For same period as 233. Required of Mechanical Engineering students. Mr. Lane.

235. PATTERN MAKING. Use of pattern-makers' tools; elements of pattern-making; allowances to be made for draught and for contraction in moulding and casting; use of contraction rule; preparation of prints and plain core-boxes; exercises in paring and turning; construction of patterns and core-boxes for pipes, flanges, elbows, tees and valves; more difficult exercises in pattern-making, including built-

up patterns and face-plate work; gear and wheel patterns. Required of students in Mechanical Engineering. One week during summer term. Mr. Wooley.

236. Machine Shop. Lathe work; marking off; centering; turning and boring; radial facing; filing; grinding and polishing; internal and external screw cutting; change gear calculations; taper turning and bench work. Required of students in Mechanical Engineering. Three hours per week for one term. Mr. Gatehouse.

237. Shop Processes and Management. Materials used and methods adopted in the manufacture of patterns; factors involved in determining cutting speeds and feeds in lathe work, design of standard tools, experimental investigation; theory of grinding and grinding machines, polishing and lapping; breaching and breaching machines; different systems of generating gear teeth; precision methods and tools. Required of students in Mechanical Engineering. One hour per week. Mr. Coote.

Fourth Year.

240. Mechanics of Machines. (a) *Valve gears and governors.* Gyrostatic action in machines; further treatment of engine governors; knocking and shocks in reciprocating machinery; valve gears.

(b) *Aeronautics and Aerodynamics.* The principles underlying the stability and weight-supporting power of curved and plane surfaces driven through the air at high velocities, together with the power required to maintain these velocities are studied, and the designs of such machines used for purpose of illustration. Required of students in Mechanical Engineering. Three hours per week. Professor McKergow and Dr. Batho.

Reference-books:—Dalby's Balancing of Engines; Spangler's Valve Gears.

241. Designing. The complete design of an engine, a pump, or a machine tool, is worked out, and the requisite working drawings and tracings are prepared. Required of students in Mechanical Engineering. Three hours per week. Professor Roberts.

242. Machine Design. (a). Design of power transmission gearing, including belts, ropes, friction, chain and toothed gearing, fits and fitting. (b). Engine details, including cylinders, piston rods, connecting rods, shafts, fly-wheels and machine frames. Required of Mechanical Engineering students. Two hours per week. Professor Roberts.

Text-book:—Unwin's Machine Design, Parts I and II (Longmans). *Reference book*:—Spooner's Machine Design (Longmans).

243. Machine Design. Course same as 242 (a). Two hours per week during the first term. Required of Electrical Engineering students. Professor Roberts.

244. Power Plant Design. The arrangement, design and operation of power plants worked by steam and gas engines; effects of requirements for lighting, heating and power distribution. One lecture hour and one drafting room period per week. Required of students in Mechanical Engineering. Professor McKergow.

Text-book:—Gebhardt, Steam Power Plant Engineering.

247. Heating and Ventilation of Buildings. Loss of heat from buildings; radiation surfaces; design and operation of heating systems; principles of ventilation; fans and blowers; design and duct systems; temperature and humidity control. One hour per week. Professor McKergow.

Text-book:—Carpenter, Heating and Ventilating Buildings (Wiley).

249. Mechanical Engineering Laboratory. Experimental investigation of:—engine balancing and vibration; action of governors; performance of fans and blowers; efficiency of hoisting machinery; performance of steam boilers; steam engines, steam turbines, refrigeration machines, condensers, gas engines and producers; efficiency of air compressing and pumping machinery; tests of a complete steam power plant, gas power plant, and a heating and ventilating system. Ten hours per week. Required of students in Mechanical Engineering. *Reference book*:—Carpenter, Experimental Engineering. Professor McKergow.

257. Experimental Engineering. Theory of errors; calibration and use of instruments; measurement of power; methods of testing power-plant apparatus and the tabulation of results. Required of students in Mechanical Engineering. One hour per week.

Text-book:—Carpenter, Experimental Engineering.

251. Thermodynamics. Efficiency of the piston steam-engine, behaviour of steam in the cylinder, influence of size, speed, rate of expansion, compounding, superheating and steam-jacketing; flow of gases and vapours through orifices and nozzles and applications to the design of steam-turbines; theory and analysis of performance of internal-combustion engines; refrigerating-machine cycles. Required of students in Mechanical Engineering. Two hours per week. Professor Roberts.

Text-books:—Ewing's Steam Engine (Cambridge Univ. Press); Moyer, Steam Turbines (Wiley); Marks and Davis, Steam Tables and Diagrams (Longmans).

Books of Reference:—Stodola, The Steam Turbine (trans. Lowenstein) (Van Nostrand); Clerk, The Gas Petrol and Oil Engine, Part I.

252. Machine Shop. Experimental work and studies for the minimum time required for production, involving a consideration of the best available machine tool speeds, necessary power of belting,

most efficient tool angles, quality of metal and the kind of tool steel used. The course includes work in connection with the lathe, the planer, slotter, shaper, miller and turret lathe; and instruction in gear cutting and cutter grinding. Required of students in Mechanical Engineering. Three hours per week. Mr. Gatehouse.

253. MANUFACTURING PLANT DESIGN. Methods adopted in designing a plant for manufacture of a specified product; lay-out of shops; construction of buildings; equipment requirements for power, heat and light; fire protection, general system of operation and cost determination as affecting design of plant. (Optional with Course 90 [Hydraulic Machines] for students in Mechanical Engineering.) Two lecture hours and one drafting room period per week, second term. Mr. Coote.

Text-book:—Day, Industrial Plants (Engineering Magazine).

254. WORKS, ORGANIZATION AND ACCOUNTING. Analysis of costs of production and establishment charges; elements of factory accounting; factory record systems; depreciation; organization of staff; functions of departments; purchasing systems; methods of remunerating labour; shop organization and equipment as affecting efficiency of production. Work done as far as possible in connection with course 253. Required of students in Mechanical Engineering. One hour per week. Mr. Coote.

Reference book:—Carpenter, Profit-making Management (Engineering Magazine).

DEPARTMENT OF METALLURGICAL ENGINEERING.

PROFESSOR:—ALFRED STANSFIELD.
LECTURER:—GORDON SPROULE.
RESEARCH ASSISTANT:— ————

Third Year.

261. GENERAL ELEMENTARY METALLURGY. An introductory course in general metallurgy, including metals and alloys, fuels, furnaces, refractory materials, pyrometry and calorimetry, and a short account of the metallurgy of copper, lead, iron and steel.

The instruction consists of lectures during the first term and a short laboratory course in which the following metallurgical exercises will be carried out, as far as time will permit:—(*a*) Roasting a sulphide or arsenical ore on a small scale and also in the large roasting furnace; (*b*) formation and properties of copper or lead mattes and slags; (*c*) smelting a copper or lead ore in the water-jacketed blast-furnace; (*d*) melting and casting certain metals and alloys; (*e*) the use of the electric furnace; (*f*) leaching a copper or silver ore; (*g*) elementary exercises in some of the following: pyrometry, calorimetry, tests of refractory materials, microscopic examination of

metals, heat-treatment of iron or steel, and some simple mechanical testing methods.

Two lectures a week during the first term and one laboratory period during half of the second term. Dr. Stansfield and Mr. Sproule.

262. Metallurgical Laboratory. The course covers in a more thorough manner the laboratory work mentioned in 261, particular attention being devoted to instruction in pyrometry, calorimetry, the microscopic examination of metals and the heat treatment of iron and steel. One and a half periods in the second term for Metallurgical students.

Metallography. A shorter course of one period a week in the second term is provided for Chemical Engineering students taking the inorganic option in their fourth year. This course consists mainly of the microscopic examination of metals.

263. Fire-Assaying. The lectures and instruction sheets give an account of the furnaces, balances and other appliances used in assaying; the sampling and preparation of ores; fluxes and reagents, and the methods used in assaying gold, silver and lead ores, copper and copper ores and mattes; gold and silver bullion and base bullion; cyanide precipitates and solutions.

In the laboratory the students learn as many of these methods as is possible in the time allotted to this course. Care is taken that a student shall be able to make such assays as would be required at a mine, and with a fair degree of accuracy. Metallurgical and mining students usually have an opportunity of doing additional fire-assaying in their fourth year.

One lecture and two afternoon laboratory periods a week during the first term, for Metallurgical, Mining and Chemical Engineering students. Mr. Sproule.

This course is also given in September before the third year for students in Chemistry II.

Reference book:—E. A. Smith, "Sampling and Assay of the Precious Metals."

264. Metallography (Summer School). A course of laboratory instruction in the methods of Metallography and its uses for controlling the heat-treatment of steel and other metals, and for detecting and explaining the nature of defective metallic materials.

This course is given in September before the third year for students in Chemistry II. Mr. Sproule.

Text-book:—A. Sauveur, "The Metallography and Heat-Treatment of Iron and Steel."

265. Metallurgical Calculations. This is an introductory course on the application of exact chemical and physical laws to metallurgical operations, such as the combustion of fuel, the smelting of ores

and the construction and heating of furnaces. One lecture a week for Metallurgical students. Dr. Stansfield.

Text-book:—J. W. Richards, "Metallurgical Calculations," Vol. I.

266. Colloquium. Metallurgical students are required to read current metallurgical periodicals and to give an account of their reading at the colloquium which is held once a week during the first term. Dr. Stansfield.

267. Summer School (Metallurgical Works). Metallurgical students are required to attend the summer school which is held at the end of the third year. In this school visits are paid to metallurgical works both in Montreal and at a distance.

In addition to this, excursions may be made by the class from time to time during the term to such metallurgical works as are within reach.

Fourth Year.

271. Metallurgy (General).

(*a*) The metallurgy of copper, lead, gold, silver, zinc and nickel.

(*b*) The metallurgy of iron and steel.

Text-books:—W. Gowland, "The Metallurgy of the non-ferrous Metals"; Bradley Stoughton, "The Metallurgy of Iron and Steel."

Two lectures a week during the session and a few laboratory demonstrations. Dr. Stansfield.

272. Metallurgy. (*a*) A more detailed account of the metals mentioned in 271.

Reference books:—Hofman, "Metallurgy of Copper"; Collins, "Metallurgy of Lead"; Ingalls, "Metallurgy of Zinc"; Collins, "Metallurgy of Silver"; Stoughton, "The Metallurgy of Iron and Steel"; Forsythe, "The Blast Furnace and the Manufacture of Pig Iron."

(*b*) General advanced metallurgy.

Text-books:—Fulton, "Principles of Metallurgy"; Hofman, "General Metallurgy."

(*c*) Metallurgical construction and design, and costs of metallurgical plant and operations.

Required of Metallurgical students. Two hours a week during the first term and three hours a week during the second term. Dr. Stansfield.

274. Metallurgical Laboratory, Thesis Work. This time is devoted to the serious study of some metallurgical problem. Usually two students work together and present a thesis containing an account of an important published work bearing on their subject, as well as the result of their own experimental researches. Required of Metallurgical students. One half-period in the first term and three periods a week during the second term.

275. Electro-Metallurgy. This course of lectures is devoted mainly to a consideration of the principles and construction of electric furnaces, and their uses for smelting and refining metals. The refining of metals and the recovery of metals from their ores by electrolysis of aqueous solutions is also considered. Two lectures a week during the second term and demonstrations in the laboratory for Metallurgical, Electrical and Chemical students. Dr. Stansfield.

Text-book:—Stansfield, "The Electric Furnace."

276. Electro-Metallurgy Laboratory. The work is arranged to illustrate the lectures. Groups of students operate each of the main types of electric furnace and become familiar with some of the principles of electric furnace construction and design. One period a week during the second term.

277. Colloquium. One hour a week during the second term is given to informal discussion of research and other work being done in the department, and to other topics of metallurgical interest. Dr. Stansfield.

278. Metallurgical Machinery and Design. Two periods a week, during the second term, are devoted to drafting and designing metallurgical furnaces and plants. The course includes lectures on metallurgical machinery and design, which are included in 272.

DEPARTMENT OF MINING ENGINEERING.

Professor:—John Bonsall Porter.
Associate Professor:—John W. Bell.
Dawson Research Fellow:—Gordon Maxwell M. Edwards.
Douglas Research Fellow:—Willi Erlenborn.
Harrington Research Fellow:— ————————

Third Year.

291. Mining Engineering. *The principles and practice of mining.*—Introductory, simple mining methods, excavation, explosives and blasting, rock drills, coal cutters, gold washing and dredging, hydraulic mining, quarrying, etc. Two lectures per week in the second term. This course is continued in the fourth year. (See 297.) Dr. Porter.

292 and 295. Ore Dressing. *The theory and practice of ore dressing and coal washing.*—The forms in which ores occur and the effect of mixture, impurity, etc.; the theoretical considerations affecting mineral separations; the mechanical operations involved; crushing, sizing and dressing machinery—breakers, stamps, rolls, screens, jigs, vanners, tables, flotation apparatus, washers, magnetic separators, etc. Two lectures per week and laboratory. This course is continued in the fourth year. (See 299.) Dr. Porter.

ORE DRESSING LABORATORY. Simple tests of ores, sands and gravels, by means of pan, classifier, jig, table, etc. One afternoon per week in the second term. Further laboratory work in the fourth year. (See 300 and 301.) Professor Bell.

293. MINE MAPPING. The calculations and plotting of mine surveys. One afternoon per week in the first term. Professor Bell.

Text-books:—H. C. Hoover, Principles of Mining, D. W. Brunton's Safety in Tunnelling, and R. H. Richard's Text-book of Ore Dressing.

Fourth Year.

297. MINING ENGINEERING. *The principles and practice of mining.*—Prospecting, deep wells, diamond drilling, open cut mining, shaft sinking, drifting, underground development and methods of mining, timbering, hauling, hoisting, pumping, lighting, ventilating, etc.; mine accidents and their prevention; general arrangement of plant, stores and dwellings; administration; examination and valuation of mines and mine reports. Three lectures a week. Dr. Porter.

298. MINING AND ORE-DRESSING MACHINERY AND DESIGN. *The application of mechanical and electrical engineering to mining, ore-dressing and metallurgy.*—Machinery for haulage, hoisting, pumping, ventilating, etc.; mine power plants, power transmission, tramways, cableways, compressors, blowing engines, conveyors, cranes, etc.; mine and mill building, head frames, ore bins, lay-out of plant, etc. One lecture a week, and two drafting room periods in the second term for all students in course and one or two additional lectures per week for students taking certain alternatives. Dr. Porter and Professor Bell.

299. ORE-DRESSING AND MILLING. Continuation of the ore-dressing course of the third year. Gold and silver milling, amalgamation, cyaniding, flotation, etc., concentration plants, coal breakers and washers, general conclusions regarding plant design and lay-out. Two lectures a week in the first term. Dr. Porter.

302. MINING COLLOQUIUM. One hour a week is given to the presentation and discussion of papers on the work being done in the department and to other matters relating to mining and ore-dressing. Students are required to take a leading part in these exercises.

300. ORE-DRESSING LABORATORY. Two mornings per week in the first term are given to the ore-dressing and hydraulic laboratories. This time is chiefly assigned to ore-dressing, and certain typical operations are carried out. The exercises in ore-dressing are a continuation of the third year laboratory work, but are arranged as far as possible for individuals rather than groups of students. They comprise experiments in crushing, classifying, jigging, slime treatment, magnetic separation, cyanidation and amalgamation, coal washing, etc.

(Students taking the geological alternative give one morning per week in the first term to petrographical laboratory and only one to ore-dressing and hydraulics, as above.)

301. Ore-Dressing Laboratory and Thesis Work. In the second term one whole day and one additional morning per week are given to individual work in the laboratory and to the preparation of a thesis to be filed in the departmental library, and, when suitable, published.

The subjects available for thesis work are very numerous, and range from purely theoretical investigations in crushing, screening, classification, concentration, flotation, etc., to the experimental determination of the best methods for the treatment of particular ores and coals. A large number of different lots of ore are available in sufficient quantities for work on a comparatively large scale. New ores are constantly being secured.

Text-books:—In addition to the text-books already specified for the third year, students are required to provide themselves with Peele's Miners Engineers Handbook and the Handbook of Mining Details or the Design of Mine Structures, published by McGraw-Hill Co. In addition to using these formal text-books, students are required to look up a large number of special references and also to make frequent use of the works named below, those marked with a * being so freely used that they should, if possible, be purchased by each member of the class: Sir C. Le Neve Foster's Ore and Stone Mining; Mining; *Donaldson's Practical Shaft Sinking; *Brinsmade's Mining Without Timber; Crane's Ore Mining Methods; *Ketchum's Design of Mine Structures; Mayer's Mining Methods in Europe; *Hughes' Text-book of Coal Mining; Galloway's Lectures on Mining; Boulton's Coal Mining; *McCulloch and Futers Winding Engines; Behr's Winding Plants for Great Depths; Sanders' Mine Timbering; *Storms' Timbering and Mining; Peele's Compressed Air Plant; Richard's Ore-Dressing; Wiard's Theory and Practice of Ore-Dressing; Rickard's Stamp Milling of Gold Ores, Economics of Mining and *Sampling and Estimation of Ore in a Mine; Del Mar's Tube Milling and Stamp Milling; *Thompson's Stamp Milling and Cyaniding; *Julian and Smart's Cyaniding Gold and Silver Ores; Von Bernewitz Cyanide Practice; *Meagraw's Details of Cyanide Practice; *Hoover's Concentrating Ores by Flotation; Rickard's Flotation; *Handbook of Milling Details; *The Coal and Metal Miners' Pocket-book; Text-book of Rand Metallurgical Practice, Vols. 1 and 2.

Research Fellowships and Advanced Courses.

Special courses of instruction are offered to graduate students in mining and ore-dressing. These courses include lectures, colloquia and individual work in the laboratories and drafting room. There are

three endowed Research Fellowships in the gift of the Mining Department. These are assigned to graduates of the department who show particular aptitude for advanced work.

Laboratories.

The specific laboratory instruction in mining subjects proper begins in the third year, with courses in assaying, elementary metallurgy and ore-dressing. In the fourth year this work is elaborated, the general method of instruction being first to conduct a limited number of important typical operations, and then to assign to each student certain methods which he must study out in detail, and upon which he must experiment and make a written report. In this work he is guided by the professors and fellows, and assisted by the other students, whom he must in turn assist when practicable. In this way every student acquires detailed knowledge of certain typical operations and makes at least one original investigation and at the same time gains a fair general experience of many of the important methods in use.

Illustrations, Museums, Societies, etc.

In addition to a large series of lantern slides, the department owns a collection of over four thousand photographs and other illustrations, and a large and representative library including selected trade catalogues, etc. These collections are constantly being enlarged.

The museums of the building contain suites of ores, concentrates, fuels, and metallurgical materials, models of mines and furnaces, and collections of finished products.

The McGill University Mining Society and the Mining Society Camera Club meet at stated periods to read and discuss papers by graduate and student members, and occasionally to hear lectures by gentlemen eminent in the profession. The Society has been made a students' section of the Canadian Mining Institute, and its undergraduate members are therefore student members of the Institute, and receive all its publications. Papers read before the Mining Society may be entered in competition for all students' prizes offered by the Canadian Mining Institute, or the Engineering Institute of Canada.

Field School in Mining.

294. The summer vacation field class, instituted in 1898, is now a fixed part of the course. All students of Mining in regular course are required to attend this class at the end of the third year.

The school lasts from four and one-half to six weeks, depending on where it is held. Of this period about one-sixth is given to field work in geology, one-half or more to mining work proper, and the remainder to an examination of ore-dressing and milling plants and

metallurgical establishments. The Professor or the Associate Professor of Mining and other members of the staff go with the party and hold daily demonstrations or classes. The students take notes and sketches on the ground, and afterwards are required to work up these notes and to submit a formal report.

During the last twenty years these field parties have visited British Columbia nine times, Nova Scotia six times, Newfoundland, Pennsylvania and Michigan twice each. Numerous visits have also been made to Sudbury, Cobalt and other Ontario localities, while *en route* to more distant points.

The instruction given during this field course is free to all Mining students, the only expense to them being the cost of board, lodging and railway fares. These expenses are kept as low as is practicable and are in part met by the income of a fund provided by the late Sir William Macdonald, from which deserving students who require aid can also have money advanced them by applying to the Professor of Mining.

At the close of the regular work of the field school arrangements are made with the managers of the mines visited and others, to give the members of the party individual employment for the remainder of the summer. All students are earnestly advised to engage in such work, and it is probable that it will be made obligatory at an early date in the future.

DEPARTMENT OF PHYSICS.

PROFESSOR:—A. S. EVE.

ASSOCIATE PROFESSORS:—
- L. V. KING.
- J. A. GRAY.
- A. N. SHAW.

ASSISTANT PROFESSORS:—
- N. E. WHEELER.
- H. E. REILLEY.

DEMONSTRATORS:—
- E. S. BIELER.
- G. H. HENDERSON.
- R. J. CLARK.
- V. HENRY.
- L. A. SMITH.
- L. H. NICHOLS.

The instruction includes a fully illustrated course of experimental lectures on the general principles of physics, embracing in the first year:—*The Laws of Energy, Heat, Light and Sound;* in the second year, *Electricity and Magnetism*, accompanied by courses of practical work in the laboratory, in which the students will perform for themselves experiments, chiefly quantitative, illustrating the subjects treated in the lectures. Opportunity will be given to acquire experience with

all the principal instruments used in exact physical and practical measurements.

First Year.

311. Heat, Sound and Light. Two hours per week. Tuesday and Thursday mornings. Dr. Shaw.

Text-book:—Duncan & Starling's Heat, Light and Sound (Macmillan's).

312. Laboratory Course. Two hours per week, spent in practical measurements in the Macdonald Physical Laboratory in conjunction with the lecture courses. See time-table of sections.

Text-books:—Laboratory Manuscripts, Barnes & Wheeler (Renouf Pub. Co.)

Second Year.

315. Electricity and Magnetism. Two hours per week, Monday and Friday mornings. Dr. Gray.

316. Laboratory Course. Two hours per week. (*a*) *Magnetism and Electricity.*—Measurements of pole strength and moment of a magnet; the magnetic field; methods of deflection and oscillation; comparison of moments and determination of the elements of the earth's magnetism. (*b*) *Current Electricity.*—A complete course of measurements of current strength, resistance, and electromotive force; calibration of galvanometers.

Text-books:—Duncan and Starling, Electricity and Magnetism, (Macmillan's). Laboratory Manuscripts (Renouf Publishing Co.).

Fourth Year.

320-321. Laboratory Course. Students of Electrical Engineering will continue their work in the Physical Laboratory in the fourth year. The following is a brief outline of the course:—

Magnetic elements and measurements; testing magnetic qualities of iron; theory and practice of absolute measurements; comparison and use of electrical standards of resistance, E. M. F., self and mutual-induction, and capacity; testing and calibration of ammeters and voltmeters; insulation and capacity tests; electric light photometry; electrical properties of thermionic valves.

Wednesday morning at 9. Laboratory, Wednesday morning and afternoon. Dr. King.

322. Electrical Theory. Optional course of lectures for third year students of Electrical Engineering.

325 to 329. Advanced Courses and Research. For advanced courses of lectures, see under honour courses in Arts. There are special facilities offered for those desiring to take up research work in heat, optics, sound, electricity and magnetism, and radioactivity.

DEPARTMENT OF SURVEYING AND GEODESY.

Assistant Professors:— A. J. Kelly. James Weir.

This course is designed to give the student a theoretical and practical training in the methods of plane and geodetic surveying, in the field work of engineering operations, and in practical astronomy in its application to geodesy. The course is divided as follows:—

Second Year.

346. Surveying. Chain and angular surveying; the construction, adjustment, use and limitations of the transit, level, micrometer, compass and minor field and office instruments; railway circular curves; planimeter and pantograph; general topography; levelling; contour surveying; stadia surveying; photographic surveying; land systems of the Dominion and provinces. Mr. Kelly.

347. Field Work. (1) A farm survey, using chain and compass; (2) a compass and micrometer survey; (3) a detail survey, using chain and offset; (4) differential and profile levelling; (5) transit work.

348. Mapping. Drafting from field notes of chain and angular surveys, and the plotting of topographical features. The tinting of maps with water-colours is also included in this course.

Third Year.

351. Map Projections. Graphical determination of spherical triangles; spherical projections, and the construction of maps. Mr. Weir.

352. Surveying. Theory and use of instruments; hydrographic surveying; the use of the plane table; mining surveying; barometric and trigonometric levelling; elements of practical astronomy. Mr. Kelly.

353. Surveying. Theory and use of instruments; the use of the plane table; mining surveying; magnetic surveying; hydrographic surveying; barometric and trigonometric levelling; theory and setting-out of transition curves; elements of geodetic surveying; elements of practical astronomy. Mr. Weir.

354. Field Work. (1) Level and transit practice, including the adjustments of the instruments; (2) the preliminary, topographic and location surveys for a railway, including simple, compound, transition and vertical curves, profile levelling, cross-sectioning for construction.

and plotting of field notes; (3) a topographic survey with the stadia transit and the plane table; (4) a hydrographic survey of a river channel, including measurement of discharge; (5) a survey at night illustrating underground methods; (6) astronomical observations with sextant and engineer's transit.

Fourth Year.

359. Geodesy. The determination of time, latitude, longitude and azimuth; figure of the earth, measurements of base lines and triangulation systems; adjustment and reduction of observations. Mr. Weir.

361. Field Work. (1) Determination of latitude, (*a*) by transit and sextant observations of Polaris, (*b*) by zenith telescope, (*c*) by noon observations with transit and sextant. (2) Determination of azimuth, (*a*) by equal altitude observations of the sun, (*b*) by observations of elongation of Polaris, (*c*) by observation of a circumpolar star with engineer's transit, (*d*) by means of solar attachments and solar compass. (3) Determination of time, (*a*) by equal altitude observations of the sun with sextant and transit, (*b*) by observations of the meridian passage of stars with astronomical transit. (4) Determination of longitude by clock comparisons. (5) Base line measurements. (6) Precision levelling. (7) Measurement of angles by geodetic methods. (8) Plane table surveys.

360. Geodetic Laboratory.

The following determinations of the constants and errors of surveying instruments are made in the geodetic laboratory by the fourth year students in the Civil Engineering course:—(1) Measurement of magnifying power; (2) errors of graduation; (3) measurement of eccentricity of circles; (4) determination of errors of run of theodolite microscopes; (5) investigation of the errors of the graduation of a standard bar; (6) graduating scales with the dividing engine, and comparison thereof on the comparator; (7) investigation of the errors of graduation of circles on the circular comparator; (8) determination of the constants of steel tapes; (9) investigation of the graduation errors of steel tapes on the fifty-foot comparator; (10) determination of the scale value of level vials; (11) investigation of the accuracy of barometers; (12) determination of the collimation error of an astronomical transit by fixed collimators and by nadir method; (13) measurement of inclination error in an astronomical transit by nadir observations.

The determination of gravity by means of the reversible pendulum is experimentally investigated.

Equipment of the surveying department comprises the following, in addition to the apparatus of the observatory and geodetic laboratory:—

Fourteen six-in. transit theodolites with micrometer microscope

attachments; seven portable meridian transits; two zenith telescopes; forty-seven transit theodolites by various makers with mining, gradienter, stadia, and solar attachments; a photo-theodolite; two 8-in. alt-azimuths; thirty-three dumpy and fourteen wye levels; two gradient-telemeter levels; hand levels and clinometers; four precision levels; seventeen surveyors' compasses; one miner's dial; prismatic compasses; pocket compasses; twenty-one marine sextants and artificial horizons; box sextants; two reflecting circles; seven plane tables; five current meters; Rochon micrometers; double image micrometers; heliotrope; barometers; one 100-ft. Invar tape; 300-ft. and 500-ft. steel tapes, suitable for base measurements; steel chains and steel bands; linen and metallic tapes; sounding lines; pickets; levelling rods; micrometer targets; station pointer; pantograph, planimeters; slide rules and other minor appliances.

FIELD WORK.

Field work is required of all students entering the second year, of students of the third year in the courses of Civil and Mining Engineering, and of the fourth year in the Civil Engineering course. The work will begin in 1921 on May 2nd, and will continue for four weeks.*

All students are required to keep complete field notes, and to prepare maps, sections and estimates from their own surveys. This office work is principally done during the regular summer school session.

EXAMINATION FOR LAND SURVEYORS:—Any graduate in the Faculty of Applied Science in the Department of Civil Engineering and Land Surveying may have his term of apprenticeship shortened to one year for the profession of land surveying.

Text-books and books of reference:—Johnson and Smith's Theory and Practice of Surveying, Greene's Practical and Spherical Astronomy, Hosmer's Practical Astronomy, American Ephemeris and Nautical Almanac, Baker's Engineering Surveying Instruments, Breed and Hosmer's Principles and Practice of Surveying, Turnbull's Underground Surveying, Durham's Mine Surveying, Reports of the Canadian and United States Geodetic Surveys.

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*The Faculty may decide to hold the fourth year field class in September, 1921, instead of in May with the second and third year classes.

REGULATIONS CONCERNING PREREQUISITE SUBJECTS.

REGISTRATION, STANDING AND PROMOTION.

(1) Students proceeding to a degree shall be classed as Undergraduates or Conditioned Undergraduates. Undergraduates are those who, having passed all entrance requirements, have also at the close of any session passed the examinations in all the subjects of their course, or who at the opening of the following session have removed all conditions by passing supplemental examinations in the subjects in which they failed. Conditioned Undergraduates are those who have failed to remove their conditions as above.

(2) No student proceeding to a degree shall be allowed to take any subject, unless he has previously passed, or secured exemption in all prerequisite subjects.*

(3) No Conditioned Undergraduate shall be permitted to take any second year subject until he has passed, or secured exemption in all matriculation requirements, and similarly, no third or fourth year work may be undertaken until all first or second year subjects respectively shall have been passed.

The Faculty may, however, waive this rule in special cases on recommendation of the Committee on Registration, Standing and Promotion.

(4) Conditioned Undergraduates proceeding to a degree must follow a course of study approved by the Faculty on the recommendation of the Committee on Registration, Standing and Promotion. They may be required to repeat subjects in which they have passed, but in which their standing has been low.

(5) Partial students are those who are not proceeding to a degree. Such students may be admitted to classes without regard to the prerequisite rule, provided that they have obtained the permission of the head of each department concerned, and have also had their courses approved by the Committee on Registration, Standing and Promotion.

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* Prerequisite subjects are those which, in the opinion of the Faculty, must be mastered before the subjects to which they are prerequisite can be intelligently studied.

Concurrent subjects are related subjects which should be studied in the same session.

(6) If a partial student wishes to obtain undergraduate standing in order to proceed to a degree, he shall not be given credit for subjects taken in contravention of the prerequisite rule until he has also passed examinations or secured exemptions in such prerequisites as may be demanded by the Committee on Registration, Standing and Promotion, and, on the recommendation of this Committee, has had his case approved by a unanimous vote of the Faculty.

No student who has failed to remove all his conditions by the beginning of the second term of the fourth year shall be permitted to graduate with his class.

List of subjects in the Faculty of Applied Science with the numbers of subjects which are prerequisite and concurrent.

No.	Year	SUBJECT	Prerequisite	Concurrent
1	II	Arch. Design I	18, 31,36	6
2	III	" " II	1	7 or 8
3	IV	" " III		7 or 8
4	V	Arch. Design IV		
5	I	Elements of Architecture		
6	II	Elements of Composition		
7	III	Theory of Design	1	
8	IV	Theory of Planning	1	
9	III or IV	Ornament and Decoration	32, 37	
10	III or IV	" " "	32, 37	
11	III or IV	" " "	32, 37	
12	III or IV	" " "	32, 37	
13	I	General History (Arts II)		
14	II	History of Arch. (Classic)		32
15	III or IV	" " (Mediaeval)	13	33
16	III or IV	" " (Renaissance)	13	34
17	V	" " (Modern)	14	
18	I	Architectural Geometry		
19	III	Perspective		
22	IV	Hygiene of Buildings	42, 43	
23	IV	Heating and Ventilation	42, 43	
24	II	Building Construction		
25	II	Building Details		24
26	II	Structural Engineering I		
27	II	Structural Eng. (Draughting)		26
28	III	Structural Engineering II		
29	III	Structural Eng. (Draughting)		28
30	V	Professional Practice	24	
31	I	Architectural Drawing		5
32	II	" "		
33	III	" "		
34	IV	" "		
35	V	Historical Drawing		
36	I	Freehand Drawing		
37	II	" "	36	
38	III	" "	37	
39	IV	" "	38	
40	IV	Modelling		
41	V	"	40	
42	I	Physics (Arts)		
43	I	Physics Lab. (Arts)		
44	II	Architectural Essay		
45	III	" "		
46	IV	" "		
47	V	" "		
48	II, III, IV, & V	Summer Work		
51	II	General Chemistry	311, 312	52
52	II	Gen. Chem. Lab. (Eng. Students)	311, 312	51
54	III	Inorg. Qual. Anal.—Summer School (Chem., Eng. and Met. Eng. Students)	51, 52	55
55	III	Inorg. Qual. Anal. Lab.—Summer School (Chem. Eng. and Met. Eng. Students)	51, 52	54

No.	Year	Subject	Prerequisite	Concurrent
56	III	Organic Chemistry	51, 52	57
57	III	" " Lab		56
58	III	Physical Chemistry	51, 52	
59	III	Inorg. Qual. Anal	51, 52	60
60	III	" " " Lab		59
61	III	" Quant. "	51	62 or 67
62	III	" " " Lab. (Chem. Eng. Students)		61
64	IV	Advanced Organ. Chem	56, 57	65
65	IV	Organic Chem. Lab	56, 57	64
66	IV	Physical Chem. and Lab	58	
67	IV	Inorg. Lab. (Chem. Eng. Students)	61, 62	
68	IV	Industrial Chemistry, Inorganic	61, 62 or 76	
69	IV	Industrial Chemistry, Organic	61, 62 or 76	
70	IV	Applied Electro-Chem. and Lab	51, 52	
71	IV	Mineral Anal. (Min'g Students)	59, 60	
72	IV	Adv. Inorg. Chemistry	58	
73	IV	Food Chemistry	56, 57	66
74	IV	History of Chemistry	51, 56	
76	III	Inorg. Quant. Anal. Lab. (Chem. Students)		61
77	IV	Inorg. Lab. (Chem. Students)	61, 62	
81	II	Materials of Construction		
83	II	Mechanics	194	198
86	III	Mechanics	83, 198	
87	III	Strength of Materials	83, 198	
88	III	" " " Lab		87
89	III	Foundations and Masonry		87
90	III	Structural Design		87
92	III	Railway Eng	83, 346, 347, 348	
93	III	" "		92
94	IV	Theory of Structures	86, 87	
95	IV	Strength of Materials	86, 87	
96	IV	Bridge Design	90	94
97	III & IV	Hydraulics	83	
98	III & IV	" Lab		97
99	IV	" Machines	86	97
100	IV	Municipal Engineering		97
101	IV	Hydraulics and Lab. (Short Course)	83	
111	III & IV	Elements of Elec. Eng	198, 315, 316	
112	III & IV	Elec. Eng. Lab. (Elementary)		111
113	III	Electrical Engineering	198	
114	III	Elec. Eng. Lab		113
117	IV	Electrical Engineering	113, 114, 201	320, 321
118	IV	Elec. Eng. Lab. (Elec. Eng. Students)	113	117
120	IV	Elec. Light and Power Distrib		117, 118
121	IV	Electric Traction		117, 118
122	IV	Electrical Designing	232	117, 118
123	IV	Applications of Electricity	113	117
124	IV	Elec. Photometry and Illumination	113	117
131	I	English Composition		
132	II	Summer Reading		
133	III	Summer Reading or Essay		
134	IV	Summer Essay		
141	III	Geology, General		
142	III	Mineralogy	51	
143	III	Mineralogy, Determinative	51	
146	IV	Petrography and Lab	141	

No.	Year	Subject	Prerequisite	Concurrent
147	IV	Petrography (Advanced)	141, 142, 143	
148	IV	Ore Deposits and Economic Geol.	141	
149	IV	Geology of Canada	141	
151	IV	Crystallography	142	
152	IV	Geology, Historical	141, 142, 143	
153	IV	Geology Fieldwork (with 294)	141, 142, 143	
154	IV	" " (alt. a)		
171	III	Economics		
172	IV	Engineering Economics	171	
175	IV	Engineering Law		
191	I	Geometry		
192	I	Algebra		
193	I	Trigonometry		
194	I	Mechanics		
197	II	Analytic Geometry	192	
198	II	Calculus	192	
201	III	Calculus	198	
211	I	Mechanical Drawing		
212	I	Carpentry and Wood Turning		
213	I	Smith Work		
214	I	Foundry Work		
215	I	Shop Methods		
218	II	Mechanics of Machines	191, 192, 194	198
220	II	Machine Shop Work		
221	II	Shop Methods		
223	III	Mech. Eng. Laboratory		226
224	III	Mechanics of Machines	83, 218	
225	III	Machine Design		87, 231 or 232
226	III	Mech. Eng. (General Course)	51	228
227	III	" " (Mech. Eng. Students)	51	228
228	III	" " Lab		226, 227 or 373
229	III	Thermodynamics	51, 198	
231	III	Mech. Drawing (Mech. Eng. Stud.)		225
232	III	" " (Elec. Eng. Stud.)		225
233	III	Smith Work (Summer School)	213	
234	III	Foundry Work (Summer School)	214	
235	III	Pattern Making	212	
236	III	Machine Shop Work	220	
237	III	Shop Processes and Management		
240	IV	Mechanics of Machines	234	
241	IV	Designing	225, 231	242
242	IV	Mach. Design (Mech. Students)	225	
243	IV	Mach. Design (Elec. Students)	225	
244	IV	Power Plant Design	227	
245	IV	Locomotive Engineering	227	244
246	IV	Marine Engineering	227	244
247	IV	Heating and Vent'n of Buildings	227	244
249	IV	Mech. Eng. Lab	227, 228	
251	IV	Thermodynamics	228, 229	
252	IV	Machine Shop Work	236	
253	IV	M'f'g. Plant Design		
254	IV	Works Org. and Accounting	237	252
257	IV	Exp. Engineering	227, 228	249
261	III	General Elem. Metallurgy	51	
262	III & IV	Metall. Lab. and Metallography		261 in YearIII

No.	Year	Subject	Prerequisite	Concurrent
263	III	Fire Assaying	51 or 52 (or 75).	
264	III	Metallography (Summer School)		
265	III	Metall. Calculations		261
266	III	Metall. Colloquium		261
267	IV	Summer Sch. (Metall. Works)		
271	IV	Metallurgy (General)	261	
272	IV	" (Metall. Students)	261	271
274	IV	Metall. Lab. Thesis	262	271
275	IV	Electro-Metallurgy	51	
276	IV	" " Lab.		275
277	IV	Metall. Colloquium	261	271
278	IV	Metall. Machinery and Design	261	271
291	III	Mining Engineering		
292	III	Ore Dressing and Lab.	51	
293	III	Mine Mapping	346, 348	
294	III	Mining Field School	141	
295	III	Ore Dressing (Chem. Eng. Students)	51	
297	IV	Mining Engineering	291	
298	IV	Mining Machinery and Design	81, 226, 299	297
299	IV	Ore Dressing and Milling	292	
300	IV	" " Lab	292	299
301	IV	" " " Thesis Work	263, 300	
302	IV	Mining Colloquium		297, 299
311	I	Physics		
312	I	Physical Lab.		311
315	II	Physics		
316	II	Physical Lab.		315
320	IV	Physics (Elec. Eng.)	315, 316	
321	IV	Phys. Lab. (Elec. Eng.)		320
341	I	Desc. Geometry		
342	I	Freehand Drawing		
343	I	Lettering		
345	II	Descriptive Geo. and Perspective	341	
346	II	Surveying	191, 193	
347	II	Surveying Fieldwork		
348	II	Mapping	342, 343	
351	III	Map Projections	341, 345	
352	III	Surveying (Miners)	346, 347	
353	III	Surveying (Civils)	346, 347	
354	III	Surveying (Fieldwork)	349, 347	
359	IV	Geodesy	351	
360	IV	Geodetic Lab.		359
361	IV	Geodetic Fieldwork	353, 354	
400	IV	Military Science		

EXAMINATION TIME TABLES—FACULTY OF APPLIED SCIENCE.

(Subject to Revision)

I.- Supplemental Examinations.

Supplemental examinations for all subjects of the First, Second and Third Years Applied Science are held in August or September A schedule of these examinations may be obtained from the Dean.

II.—Sessional Examinations.

Note.—The following numbers correspond with the subjects in the prerequisite list and the departmental descriptions.
( ) indicates that the examination will be held in the first year drafting room.
[ ] indicates that the examination will be held in one of the drafting rooms or laboratories of the department concerned.
Bold-faced type shows that the examination will be held in the Molson Hall with the Arts classes.
Examinations begin at Nine A.M. and Two P.M., and normally last three hours.

Time Table, First Term Examinations (Subject to Revision).

Date		First Year	Second Year	Third Year	Fourth Year
January 19th	A.M.	..	.	11–261–351	68–243–299–359
" "	P.M.	..	.	..	..
January 20th	A.M.	..	.	58–86–263	124–149–263
" "	P.M.	13	.	..	70
January 21st	A.M.	..	197	97–295–352	97–101
" "	P.M.	191	..	..	172
January 22nd	A.M.	..	..	61	71–120
" "	P.M.	..	..	..	..

SECOND TERM TIME TABLE EXAMINATIONS (Subject to Revision)

DATE		FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
April 19th	A.M.	42	345	.	.
" "	P.M.	341	.	.	.
April 20th	A.M.		51–75	265–19	64–146–244–272
" "	P.M.	.	6	113–237–292–353	147–151
April 21st	A.M.	.	315	12–226–227	100–117–251–271
" "	P.M.	5–311	26	89	17–72
April 22nd	A.M.	.	82	28–229	69–95–229–254
" "	P.M.	.	52	88	148–262
April 23rd	A.M.	192	.	16–87	16–94–123
" "	P.M.	13	346	56	240
April 25th	A.M.	.	24–83	141	30–73–241
" "	P.M.	131	.	111–141	111–121
April 26th	A.M.	31–194		23–291	122–278–298
" "	P.M.	.	14–188	15–171–320	66–96–242
April 27th	A.M.	215		90	67–297
" "	P.M.	.	218	223–228	99–253–275
April 28th	A.M.	193	54	59–201	245–246–247
" "	P.M.	.	81	92–224	175
April 29th	A.M.	18		142–225	74–257
" "	P.M.	.	.		152–249

III.—TIME TABLES FOR LECTURES

Complete time tables for all lectures and laboratory work are bulletined in the Engineering Building, and copies of these time tables may be obtained from the Dean of the Faculty of Applied Science.

FACULTY OF LAW.

LECTURES IN THIS FACULTY FOR THE SESSION 1920-1921 WILL COMMENCE ON MONDAY, OCTOBER 4TH, 1920.

STUDENTS MAY REGISTER AT ANY TIME DURING THE WEEK PRECEDING THE COMMENCEMENT OF LECTURES.

MATRICULATION.

Particulars regarding the Matriculation Examination are given on pages 52 to 63.

The attention of students who intend to practise law in the Province of Quebec, or to be admitted to the notarial profession, is called to the statutory requirements for admission to study. These will be found on page 269. A certificate of admission to study, granted after examination by the General Council of the Bar, or by the Board of Notaries, is accepted in place of the Matriculation Examination.

PRIZES AND MEDALS.

See page 93.

FEES.

See page 101.

GENERAL INFORMATION.

Students have the free use of the Law Library of the Faculty, to which large additions are continually being made. The principal reports and legal periodicals are taken. A special room for Law students is provided in the University Library. The room is open during the day, and in the evenings from 7.30 to 10.30 o'clock.

There is a lending library of Law-books. The use of text-books may be obtained for the session on payment of an ad valorem fee.

Moot courts are held from time to time during the session in order to afford practice in the presentation of legal arguments.

DEGREES IN LAW.

The degrees in the Faculty of Law are the LL.B., B.C.L., LL.M. and D.C.L. The two last are placed under the supervision of the Committee on Graduate Studies. Particulars will be found on pages 302 and 303.

THE DEGREE OF LL.B.

The LL.B. degree is designed to supply a wide and sound education in Law, both for those who do not intend to follow the profession of

the Law, and for those who do. To the first class it offers as part of a general education a training in the methods of legal thinking, and affords the opportunity of studying legal science in relation to social and commercial life.

Those who have followed it will not be qualified to practise Law —this is not intended—but they will acquire a knowledge of law from the inside which will enable them to control their professional advisers and to approach any simple legal problem with a justified confidence in their ability to handle it. It is anticipated that the course will prove particularly attractive to students who are looking forward to a career in business, journalism or public life.

For the second class of students—those who intend to practise Law —the LL.B. curriculum provides a valuable course of preliminary study.

The course of study for the LL.B. degree extends over two years, preceded by two years in the Faculty of Arts. In the Faculty of Law the subjects studied are as follows:—

FIRST YEAR.

Roman Law.
Constitutional Law.
Obligations.
Agency and Partnership.

and

Corporations *or* **Private International Law.**
Insurance *or* **Sales.**
Shipping and Carriers *or* **Bills and Notes.**
Public International Law *or* **Evidence.**

SECOND YEAR.

Jurisprudence.
English Law.

and

Private International Law *or* **Corporations.**
Sales *or* **Insurance.**
Bills and Notes *or* **Shipping and Carriers.**
Evidence *or* **Public International Law.**

Candidates for the LL.B. degree who previously to entering upon their studies for the degree have qualified for a degree in Applied Science or Medicine, are admitted to the first year of the LL.B. course without having taken the preliminary years in the Faculty of Arts.

THE DEGREE OF B.C.L.

For the B.C.L. degree the Faculty provides three courses of study. Two of these (Courses A and B) extend over three years, and one (Course C) extends over four years.

Three-year Courses for the Degree of B.C.L.

Course A is primarily designed for students who intend to practise at the Bar of the Province of Quebec or as notaries in the Province. This course is open to students who have previously graduated in other Faculties and to returned soldiers.

Course B is designed to meet the needs of students who intend to practise law in a common law jurisdiction, whether in the other Provinces of Canada, the British West Indies, the United States of America or elsewhere. This course is open to students who have satisfied the requirements of the Matriculation Board.

The two courses are to a large extent identical. They include the study of Roman Law, the Constitutional Law and History of Canada and of the Empire, Public and Private International Law, all the principal branches of Commercial Law, Criminal Law and Procedure and the Law of Evidence. Course A includes further a thorough study of the Civil Law and Civil Procedure of the Province of Quebec. Course B substitutes for this, the study of the principles of Common Law and of Equity and of the related procedure.

Lectures are delivered, or tuition is given, on all the subjects included in both courses.

The subjects studied in the different years are as follows:—

FIRST YEAR.

Courses A and B.

Roman Law.
Constitutional and Administrative Law.
Obligations.
Jurisprudence.
Agency and Partnership.

Course A.

Legal History (Quebec).
Real Property (Quebec).
Law of Persons.
Civil Procedure.

Course B.

Contracts.
Torts.
Real Property.
Legal History.

SECOND AND THIRD YEARS.

Courses A and B.

Roman Law (special subjects).
Criminal Law and Procedure.
Municipal Law.
Public International Law.
Private International Law.
Bills of Exchange and Banking.
Commercial Sales.
Corporations and Companies.
Insurance.
Merchant Shipping and Carriers.
Evidence.

Course A.

Real Rights and Registration.
Lease.
Prescription.
Marriage Covenants.
Minor Contracts.
Successions and Gifts.
Wills, Substitutions and Trusts.
Civil Procedure.

Course B.

Common Law.
Equity.
Procedure.

The Faculty desires to impress upon English students who intend to practise law in the Province of Quebec, the great importance of obtaining a familiar knowledge of French. In this Province it is indispensable that a lawyer should be able to write and speak the French language.

Four-year Course for the Degree of B.C.L. (Course C.)

This Course *may* be taken by all candidates for the B.C.L. degree (not being *Course B.* students), and *must* be taken by all such candidates (not being *Course B.* students) who are not graduates or returned

soldiers. Before admission to this Course, students must have satisfied the requirements of the Matriculation Board. The first two years of the course cover the same ground as the two legal years of the Course for the LL.B. degree (p. 259), with the addition of Legal History (Quebec) and Property Law (Quebec), which are taken in the first year, and of Civil Procedure (Quebec) and the Law of Persons (Quebec), which are taken in the second year. The third and fourth years of the Course cover the same ground as the second and third years for the B.C.L. Degree, *Course A.* (page 260), with the omission of subjects already studied in the first and second years.

Combined Course for the Degrees of LL.B. and B.C.L.

Students who have followed the course and taken the examination qualifying them for the Degree of LL.B. and who have in addition attended lectures and passed examinations in Legal History (Quebec), Property Law (Quebec), Civil Procedure (Quebec) and Law of Persons (Quebec), may proceed to the B.C.L. Degree in two years after pursuing the studies of the third and fourth years of the four-year course (*Course C.*).

Except as above provided, no student will be allowed to pursue the Course for the LL.B. concurrently with the Course for the B.C.L.

CERTIFICATES OF PROFICIENCY IN LAW.

The Faculty is prepared to admit a limited number of persons to the lectures of the first year of the LL.B. course without having passed the matriculation examination. Persons so admitted will pursue the regular course of study for the LL.B. degree, or such other course as the Faculty may direct. Having completed the prescribed course and having passed a satisfactory examination in the prescribed subjects, they will be entitled to receive a certificate of proficiency in law.

GENERAL REGULATIONS.

1. Undergraduates shall be known as of the first, second, third or fourth year, and shall be so graded by the Faculty. In each year, students shall take the studies fixed for that year, and those only, unless by special permission of the Faculty.

2. At the end of each college year there shall be a general examination of all the classes, called the sessional examination, under the superintendence of the professors, and of such other examiners as may be appointed by the Corporation. The examination shall be conducted by means of printed questions, answered by the students in writing.

3. At the end of the last year of the course there shall be an examination, called the final examination, of those students who have

completed the curriculum. The examination shall be conducted by written papers, which may be supplemented by an oral examination. It shall cover all the subjects upon which lectures have been delivered during the whole course for the degree. Those students who satisfy the examiners shall be entitled, after making the necessary declaration and payment of the graduation fee, to proceed to the degree of LL.B. or of B.C.L., as the case may be. There shall be no sessional examination of students who are candidates in the final examination.

4. No student shall be considered as having kept a session unless he shall have attended regularly all the courses of lectures, and shall have passed the sessional examinations to the satisfaction of the Faculty in the classes of his year.

5. The Faculty shall have the power, upon special and sufficient cause shown, to grant a dispensation to any student from attendance on any particular course or courses of lectures, but no distinction shall in consequence be made between the examinations of such students and those of the students regularly attending lectures.

6. On the following days, when they fall within the session, no lectures will be delivered, *viz.*: Ash Wednesday, Good Friday, Easter Monday and Thanksgiving Day. On the following days the morning lectures will be omitted, *viz.*: All Saints' Day (Nov. 1st), and Conception Day (Dec. 8th).

EXAMINATION RULES.

1. In each examination the pass mark is 50 per cent.

2. In the final examination the maximum in Roman Law and Civil Procedure is 200 marks, and in all other subjects 100 marks. In the first year the maximum in Roman Law is 200 marks

3. No student who fails in more than one subject in any sessional examination shall be allowed the year; provided that a student who has failed in not more than two subjects and has obtained 50 per cent. of the aggregate total of marks may make good his standing by passing a supplementary examination before the beginning of the following session.

4. In the final examination no student who fails in any one subject will be held to have passed unless he obtains 60 per cent. of the aggregate total; and no student who fails in any two subjects will be held to have passed unless he obtains 65 per cent. of the aggregate total; provided that a student who has failed in not more than two subjects, but has obtained 50 per cent. of the aggregate total, may make good his standing by passing a supplementary examination at the beginning of the following session or at such later time as the Faculty may appoint.

5. A fee of $5 must be paid for the supplementary examination in each subject.

EXAMINATIONS FOR THE LL.B. DEGREE.

The standard of attainment for the degree of LL.B. will be such as may from time to time be determined by the Faculty of Law.

The award of the LL.B. degree and of Honours and Prizes in connection therewith will be determined by the results of:—

1. A written examination at the end of the first year in the subjects prescribed for that year;

2. A written examination at the end of the second year in the subjects prescribed for that year;

3. An oral examination at the end of the second year in the subjects prescribed for the first and second years.

COURSES OF LECTURES.

ROMAN LAW.

PROFESSOR:—R. W. LEE.

The course on this subject is intended to accompany the study of the Institutes of Justinian, with the text of which students are expected to become acquainted.

Text-books:—For the historical part, Walton's Historical Introduction to the Roman Law (3rd ed.); and for the Institutes, Sandars' Institutes of Justinian.

Books of Reference:—Sohm's Institutes of Roman Law, translated by Ledlie (3rd ed.); Girard, Manuel élémentaire de Droit Romain; Poste's Institutes of Gaius; Buckland, Elementary Principles of the Roman Private Law; Maine's Ancient Law.

ROMAN LAW (SPECIAL TOPICS).

PROFESSOR:—R. W. LEE.

Lectures will be given to the second and third (third and fourth) years, on a selected title of Justinian's Digest. The title for the session 1920-1921 will be Dig. IX. 2 (*de lege Aquilia*).

CONSTITUTIONAL AND ADMINISTRATIVE LAW.

PROFESSOR:—R. W. LEE.

The object of this course is to explain the fundamental principles of Parliamentary government and of the Rule of Law in the British Constitution. Particular attention is paid to the organization of the

Empire. In the second part of the course the B. N. A. Acts are commented upon, and the leading cases discussed which illustrate the respective powers of the Federal and Provincial Legislatures.

Students are expected to read Dicey, Law of the Constitution (8th edition, 1915), and Sidney Low, The Governance of England (1914). Reference may also be made to Anson, Law and Custom of the Constitution; Taswell-Langmead, English Constitutional History (8th ed.); Keith, Responsible Government in the Dominions, and Imperial Unity and the Dominions; Houston, Constitutional Documents of Canada; Kennedy, Documents of the Canadian Constitution; Lefroy, Canada's Federal System; Lefroy, Constitutional Law of Canada.

Students should supply themselves with copies of Lefroy, Leading Cases in Canadian Constitutional Law.

OBLIGATIONS.

PROFESSOR:—HON. MR. JUSTICE HOWARD.

A course of fifty lectures, dealing with the main principles of the law of obligations, including contracts, quasi-contracts, offences and quasi-offences, the effect, the various kinds, and the extinction of obligations.

LEGAL HISTORY AND BIBLIOGRAPHY.

LECTURER:—WALTER S. JOHNSON.

This course comprises an outline of the history of the law in force in the Province of Quebec, including Constitutional History up to Confederation.

AGENCY AND PARTNERSHIP.

LECTURER:—WALTER S. JOHNSON.

This course explains the principles of the law of Mandate and Partnership, as laid down in the Civil Code of Lower Canada, and also treats of commercial agency.

MUNICIPAL LAW.

LECTURER:—THIBAUDEAU RINFRET.

This course includes an outline of the general principles of municipal law and deals particularly with the Municipal Code of 1916 and the Government of Cities and Towns in the Province of Quebec.

LAW OF CORPORATIONS AND OF JOINT STOCK COMPANIES.

PROFESSOR:—HON. MR. JUSTICE MARTIN.

General course on organization of companies under the Dominion and Quebec Companies' Acts; nature of various securities; rights and powers of directors and shareholders; amalgamation and reorganization of companies; winding-up proceedings.

PERSONS.

PROFESSOR:—HON. MR. JUSTICE SURVEYER.

This course covers the law of acts of civil status, absentees, marriage, separation, divorce, filiation, minority and interdiction.

CRIMINAL LAW.

PROFESSOR:—HON. MR. JUSTICE GREENSHIELDS.

This course includes a history of the criminal law and criminal procedure of England, and of their introduction into and development throughout Canada; discussion of the Criminal Code and other statutes enacting criminal offences; of the rules of evidence in criminal cases; of the Fugitive Offenders' Act; of extradition; and, generally, of the principal features belonging to the criminal law of the Dominion.

COMMERCIAL LAW, I.

LECTURER:—A. S. TYNDALE.

The subjects dealt with include commercial sales and the law of insurance. The latter subject will be taken up in the Session 1920-21.

The course on commercial sales includes the fifth title of the Civil Code, in so far as applicable to sales of moveables, and a comparison of the common law rules and remedies.

COMMERCIAL LAW, II.

LECTURER:—S. L. DALE HARRIS.

This course is divided into two parts of twenty-five lectures each, which are taken up in alternate years.

Part I covers bills of exchange, promissory notes and other negotiable instruments, banking and stock exchange transactions.

Part II covers merchant shipping, including the jurisdiction of and procedure in the Court of Admiralty, carriers of goods and carriers of passengers.

During the session 1920-1921, Part II will be taken up.

CIVIL PROCEDURE, I.

PROFESSOR:—HON. MR. JUSTICE SURVEYER.

This course of lectures, for the first year, deals with the articles of the Code (1 to 214 inclusive) which refer to ordinary pleadings, exclusive of incidents. The course deals also with judgments by default to appear or to plead and judgments upon confession (C. P. 418 to 420 and 527 and 548), amendments to pleadings (513 to 526), procedure in summary matters (1150 to 1162), before the Superior and Circuit courts (1120 to 1149), the Commissioners' Court and the District Magistrate's Court (1253 to 1291). It includes the schedules and rules of practice referring to the above-mentioned articles and the forms of the most common kinds of pleadings.

CIVIL PROCEDURE, II.

PROFESSOR:—HON. MR. JUSTICE SURVEYER.

The advanced course for the second and third years covers all matters of procedure not dealt with in the first year course, and includes trial, provisional remedies, such as capias, attachment before judgment, injunction, etc., and special proceedings, such as proceedings relating to corporations and public offices, mandamus, etc., as well as the rules of pleading in the more complicated classes of action. It is divided into two parts, taken in alternate years.

SUCCESSIONS, GIFTS, WILLS, SUBSTITUTIONS AND TRUSTS.

LECTURER:—PIERRE BEULLAC.

Two titles of the Civil Code, that of Successions, and that of Gifts *inter vivos* and by Will are here explained. The order of the Code is followed, so that the whole subject is divided into two courses given in alternate years.

First Course:—Successions and Gifts.

Second Course:—Wills, Substitutions and Trusts.

MARRIAGE COVENANTS AND MINOR CONTRACTS; LEASE AND HIRE, PRESCRIPTION.

LECTURER:—W. F. CHIPMAN.

Two courses—in alternate years.

During the session 1920-1921 the subjects dealt with will be Lease and Hire and Prescription.

REAL PROPERTY LAW.

PROFESSOR:—W. DE M. MARLER.

FIRST YEAR COURSE:—

Distinction of things; ownerships, usufruct (Civil Code, 374-498), modes of acquisition of property (Civil Code, 583-595).

SECOND AND THIRD YEAR COURSES:—50 lectures in alternate courses.

First Course:—Modes and acquisition of immoveables:—25 lectures.

Second Course:—Privileges on immoveables and hypothecs; servitudes:—25 lectures.

PUBLIC INTERNATIONAL LAW.

LECTURER:— ————————

Sovereignty and equality of independent states; recognition of belligerency and independence; justifiable grounds of intervention; modes of territorial acquisition; territorial boundaries; doctrine of exterritoriality; treaties and arbitrations; laws of war; neutrality of states and individuals; laws of blockade; contraband; confiscation; prize-courts and their jurisprudence.

The students' attention will be specially directed to treaties, diplomatic relations, and international arbitrations, in which Canada is directly concerned.

PRIVATE INTERNATIONAL LAW.

PROFESSOR:—G. W. MACDOUGALL.

Distinction between the *a priori* and positive methods; sources of the positive law of Quebec on the subject; application and illustrations of the rules for solving conflicts of law; comparison between our jurisprudence and that of England, France and the United States.

EVIDENCE.

LECTURER:—ARNOLD WAINWRIGHT.

This course consists of an explanation of the main principles and rules of evidence in the civil and commercial matters governed by the provisions of the Civil Code.

In the course of the lectures articles 1203 to 1244 of the Civil Code, and such articles of the Code of Civil Procedure as relate to the subject of Evidence, will be commented upon and explained.

JURISPRUDENCE.

PROFESSOR:—H. A. SMITH.

The object of this course is to explain the nature of fundamental legal ideas and the general relation of law to human society. Atten-

tion is drawn to the chief points of comparison between the legal systems of Quebec and of the rest of Canada. The following books are recommended:—Salmond, Jurisprudence; Gray, Nature and Sources of the Law; Vinogradoff, Common Sense in Law (Home University Library). The books recommended in connection with the lectures on Roman Law and Constitutional Law should also be studied in connection with this course.

LECTURES SPECIAL TO THE B COURSE.

ENGLISH LAW.

PROFESSOR:—H. A. SMITH.

Under this head the student is given courses of lectures upon the leading principles of the law governing Contract, Tort and Real Property. He is not expected to master the details of modern English statutes which are not applicable to Canada. The books recommended are:—Geldart, Elements of English Law (Home University Library); Anson, Law of Contract; Caporn, Select Cases on the Law of Contract; Underhill, Law of Torts (Canadian edition); Radcliffe and Miles, Select Cases on the Law of Torts, *or* Kenny, Cases on the Law of Tort; Strahan, Law of Property (1916).

Reference may also be made to:—Holmes, The Common Law; Maitland, Equity; Pollock, Torts; Salmond, Torts.

Particulars with regard to other subjects special to this course may be obtained from the Dean of the Faculty. Instruction will be largely conveyed by means of small classes, conducted upon the tutorial system.

APPENDIX.

The attention of intending students is called to the following provisions of the Revised Statutes of Quebec and amendments, as bearing on the requirements for the study and practice of law in the Province.

I. REGULATIONS APPLICABLE TO THOSE WHO INTEND TO BECOME MEMBERS OF THE BAR.

N.B.—The articles are here abridged.

Article 4522 R.S.Q.—Examinations for admission to study and to practise law in the Province of Quebec are held at the time and place determined by the General Council.

The examinations are held alternately in Montreal and Quebec every six months; namely, at Montreal, on the second Tuesday of each January, and at Quebec, on the first Tuesday of each July.

All information concerning these examinations can be obtained from the Secretary-Treasurer of the General Council. The present General Secretary is Mr. Victor Martineau, K.C., 66 St. James Street, Montreal.

Article 4524.—Candidates must give notice, as prescribed by this article, at least one month before the time fixed for the examination, to the Secretary of the section in which he has his domicile or in which he has resided for the past six months.

Article 4475.—This article provides that candidates holding the degree of Bachelor of Arts, Bachelor of Science, or Bachelor of Letters, from any Canadian or British University are dispensed from the examination for admission to study. Such candidates are required to give the notice mentioned above.

Article 4526 R.S.Q. (as altered by by-law of the General Council). —On giving the notice prescribed by Article 4524, the candidate pays the Secretary a fee of $2.00, and makes a deposit of $125.00 for a complete certificate of admission to study; of $70.00 for a partial certificate of admission to study; and of $200.00 for admission to practice, which deposit, less $30.00, is returned in case of his not being admitted.

Article 4531.—To be admitted to practice, the student must be a British subject and must have studied regularly and without interruption during ordinary office hours, under indentures entered into before a notary, as clerk or student with a practising advocate during four years, *dating from the registration of the certificate of admission to study*. This term is reduced to three years in the case of a student who has followed a regular law course in a university or college in this Province and taken a degree in law therein.

The By-laws passed by the General Council of the Bar of the Province of Quebec provide as follows:—

Article 51.—A course of lectures on law given and followed at a university or law school of this Province, and the diploma or law degree conferred on students by such university or law school, shall count with reference to the Bar Act, only if the course of study hereinafter outlined has been effectively followed by the university or law school and by the holder of the diploma. (R.S.Q., ss. 1483 §4531.)

Article 52.—A regular law course in a university or law school of this Province consists of seven hundred and eighty-five lectures of one hour each. These lectures are given on the various subjects in the following proportions:

Roman Law:—103 lectures:—This course comprises an introduction to the study of law, with explanatory remarks and comments on the Institutes of Justinian and on the principal Roman jurisconsults.

Civil, Commercial and Maritime Law:—413 lectures.—The course on these subjects must cover a period of at least three years. It comprises the history of French and Canadian law, explanatory remarks and comments on the Civil Code and on the statutes respecting commerce and shipping.

Civil Procedure:—103 lectures:—This course must extend over at least two years. It comprises explanatory remarks and comments on the Code of Civil Procedure and of its statutory amendments, a study of the organization of the civil courts of this Province and the history of the different judicial systems of the country; also the special modes of procedure provided by the statutes and by the by-laws in general, as well as the Bar Act and the By-laws regarding the discipline of the Bar.

Public and Private International Law:—21 lectures:—This course comprises an historical outline, the sources of this law and of its subject matter, its objects (primary and secondary rights of sovereign states), rules of war, commercial and extradition treaties, etc.,

in force in Canada, as well as the rights and obligations of the citizens of the Province of Quebec and of Canada, and of aliens in the event of conflict of laws.

CRIMINAL LAW:—69 lectures:—This course comprises the history of Canadian criminal law, the organization of the criminal courts, criminal procedure, comments on the criminal law of the country, a comparative study of English and Canadian criminal law. The lectures shall extend over two years.

CONSTITUTIONAL AND ADMINISTRATIVE LAW:—41 lectures:—This course comprises an enquiry into the different constitutional enactments and public institutions of the country, the powers, the organization, the procedure of the Federal Parliament and of the Provincial Legislatures, the laws on Education, and the Municipal Code.

COMPARATIVE LAW:—30 lectures:—This course comprises a concise enquiry into the English common law, and a general knowledge of the main principles underlying the civil and commercial laws of the other Provinces of Canada.

Article 53.—The candidate for admission to practice who has obtained a law degree from a university or law school of this Province, must file, together with this notice, a certificate from the principal or head of such university or law school establishing that he has followed a law course in such university or law school during at least three years in conformity with the Bar Act, and moreover specifying the number of lectures he has actually attended in each subject comprised in the foregoing curriculum during each of the three years and during the three years as a whole.

Article 54.—The examiners must refuse to accept such degree as valid under the provisions of the Bar Act, if they are of the opinion that the course of study hereinabove outlined has not been effectually followed by the candidate.

II. REGULATIONS APPLICABLE TO THOSE WHO INTEND TO BECOME NOTARIES.

For the regulations applicable to candidates for the notarial profession, see Revised Statutes of Quebec, Articles 4774-4807.

TIME TABLE OF LECTURES FOR THE B.C.L. DEGREE.

(Three years course—Course A. and Course B.)

SESSION 1920-1921.

First Year (*First Term*)

Monday, October 4th, 1920, to Friday, January 14th, 1921 (14 weeks).

Roman Law		9.30 a.m.	M., W., Fr.
Constitutional Law		4.00 p.m.	T., Th.
Obligations	Prof. Howard	8.30 a.m.	T., Th.
Jurisprudence	Prof. Smith	9.30 a.m.	T., Th.
*Legal History (P.Q.)	Mr. Johnson	8.30 a.m.	M., W., Fr.
*Property Law	Prof. Marler	4.00 p.m.	M., W., Fr.
*Civil Procedure	Prof. Surveyer	5.00 p.m.	T., Th.
*Law of Persons	Prof. Surveyer	8.30 a.m.	Sat.
†English Law	Prof. Smith	4.00 p.m.	M., W., Fr.

First Year (*Second Term*)

Monday, January 24th, 1921, to Thursday, April 14th, 1921 (12 weeks).

Roman Law		9.30 a.m.	M., W., Fr.
Constitutional Law		4.00 p.m.	T., Th.
Obligations	Prof. Howard	5.00 p.m.	T., Th.
Jurisprudence		9.30 a.m.	T. ,Th.
Agency and Partnership	Mr. Johnson	8.30 a.m.	T., Th.
*Civil Procedure	Prof. Surveyer	8.30 a.m.	M., W., Fr.
*Law of Persons	Prof. Surveyer	8.30 a.m.	Sat.
†English Law	Prof. Smith	4.00 p.m.	M.

Second and Third Years

Monday, October 4th, 1920, to Friday, January 14th, 1921 (14 weeks).

Successions, Gifts	Mr. Beullac	8.30 a.m.	M., W.
Real Property	Prof. Marler	4.00 p.m.	T., Th.
Corporations	Prof. Martin	5.00 p.m.	M., W.
Civil Procedure	Prof. Surveyer	8.30 a.m.	T., Fr.
Criminal Law	Prof. Greenshields	5.00 p.m.	T., Th.
Lease, Hire, Prescription	Mr. Chipman	8.30 a.m.	Th., Sat.
Public International Law		5.00 p.m.	Fr.
Roman Law		4.00 p.m.	M.

Monday, January 24th, 1921, to Thursday, April 14th, 1921 (12 weeks).

Criminal Law	Prof. Greenshields	5.00 p.m.	T., Th.
Lease, Hire, Prescription	Mr. Chipman	8.30 a.m.	Th., Sat.
Civil Procedure	Prof. Surveyer	8.30 a.m.	T.
Municipal Law	Mr. Rinfret	8.30 a.m.	M., W.
Insurance	Mr. O. S. Tyndale	5.00 p.m.	M., W.
Public International Law		5.00 p.m.	Fr.
Shipping and Carriers	Mr. Dale Harris	4.00 p.m.	W., Fr.
Roman Law		4.00 p.m.	M.

*Course A students only.
†Course B students only.

TIME TABLE OF LECTURES FOR THE LL.B. AND B.C.L. COURSES.

SESSION 1920-1921.

This time table applies to students who are taking (1) the LL.B. course alone; or (2) the combined course for LL.B. and B.C.L.; or (3), the four years course for the B.C.L. The courses of lectures printed in italics are included in (2) and (3), but not in (1).

FIRST AND SECOND YEARS (*First Term*).

	8.30	9.30	4.00	5.00
Mon.	*Legal History (Quebec)*	Roman Law	*Property Law**	Corporations.
Tues.	Obligations		Constitutional.	**Civil Procedure.*†
Wed.	*Legal History (Quebec)*	Roman Law	*Property Law**	Corporations.
Thurs.	Obligations.		Constitutional*	*Civil Procedure.*†
Fri.	*Legal History (Quebec)*	Roman Law	*Property Law**	Public I.L.

FIRST AND SECOND YEARS (*Second Term*).

	8.30	9.30	4.00	5.00
Mon.	*Civil Procedure*†	Roman Law		Insurance.
Tues.	Agency and Partnership*		Constitutional*	Obligations.
Wed.	*Civil Procedure*†	Roman Law	Shipping and Carriers	Insurance.
Thurs.	Agency and Partnership*		Constitutional*	Obligations.
Fri.	*Civil Procedure*†	Roman Law	Shipping and Carriers	Public I.L.

*First year only.
†Second year only.

TIME TABLE OF LECTURES FOR THE B.C.L. AND LL.B. COURSES.*

(Applicable to any Session commencing with 1921-1922.)

This time table applies to students who are taking (1) the LL.B. course alone; or (2) the combined course for the LL.B. and B.C.L.; or (3) the four year course for the B.C.L. The courses of lectures printed in italics are included in (2) and (3) but not in (1).

FIRST YEAR (*First Term*).

	8.30	9.30	4.00	5.00
Mon.	*Legal History (Quebec)*	Roman Law	*Property Law*	Private I.L. or Corporations.
Tues.	Obligations		Constitutional	
Wed.	*Legal History (Quebec)*	Roman Law	*Property Law*	Private I.L. or Corporations.
Thurs.	Obligations		Constitutional	
Fri.	*Legal History (Quebec)*	Roman Law	*Property Law*	Evidence or Public I.L.

FIRST YEAR (*Second Term*)

	8.30	9.30	4.00	5.00
Mon		Roman Law		Sales or Insurance.
Tues.	Agency and Partnership		Constitutional	Obligations.
Wed		Roman Law	Bills or Carriers	Sales or Insurance.
Thurs.	Agency and Partnership		Constitutional	Obligations.
Fri		Roman Law	Bills or Carriers	Evidence or Public I.L.

*Subject to alteration.

SECOND YEAR (*First Term*).

	8.30	9.30	4.00	5.00
Mon.			English Law.	Corporations or Private I.L.
Tues.		Jurisprudence.		*Civil Procedure.*
Wed.			English Law.	Corporations or Private I.L.
Thurs.		Jurisprudence.		*Civil Procedure.*
Fri.			English Law.	Public I.L. or Evidence.
Sat.	*Law of Persons (Quebec)*			

SECOND YEAR (*Second Term*).

	8.30	9.30	4.00	5.00
Mon.	*Civil Procedure*		English Law.	Insurance or Sales.
Tues.		Jurisprudence.		
Wed.	*Civil Procedure*		Carriers or Bills	Insurance or Sales
Thurs.		Jurisprudence.		
Fri.	*Civil Procedure*		Carriers or Bills	
Sat.	*Law of Persons (Quebec)*			Public I.L. or Evidence.

FACULTY OF MEDICINE.

The Eighty-ninth session of the Faculty of Medicine will be opened on Friday, October 1st, 1920. The regular lectures in all subjects will begin on Monday, October 4th, at the hours specified in the time tables, and will continue until a date in May to be fixed by the Faculty.

FOUNDATION AND EARLY HISTORY.

The Faculty of Medicine of McGill University is the direct outcome and continuance of a teaching body known as the Montreal Medical Institution, which was organized as a medical school in the year 1823 by Drs. Wm. Robertson, Wm. Caldwell, A. F. Holmes, John Stephenson and H. P. Loedel. These men constituted the first medical staff of the Montreal General Hospital, itself established in 1819. The first session of the Montreal Medical Institution opened in November, 1824, with 25 students, and the lectures were given at the house of the Institution, No. 20 St. James Street, a building situated on the north side of St. James Street, at or near Place d'Armes.

In the year 1829, the Montreal Medical Institution became, by the formal act of the Governors of the Royal Institution for the Advancement of Learning, the Medical Faculty of McGill University. It is thus the oldest Faculty of the University. The first session of the McGill Medical Faculty took place in the winter of 1829-30, and the first university degree, a medical one, was conferred four years later, in 1833.

There were no sessions held during the political troubles of 1836 to 1839, and it is owing to this fact that this is the eighty-eighth instead of the ninety-first session of the Faculty, dating from its incorporation with the University in the year 1829.

The work of the Faculty was carried on in the central part of the city until 1872, when a building was provided by the Governors on the University grounds. This building met the demands of the steadily increasing number of students until 1885, when an addition was found to be necessary.

In 1893, and again in 1898, further extensions and alterations were made, funds for the purpose having been provided by generous friends of the Faculty.

On the 16th of April, 1907, a part of these new buildings, together with the original medical building, was destroyed by fire. The wing

containing the principal laboratories and lecture rooms was saved, however, and is now used by the Departments of Physiology and Medical Chemistry.

The erection of a new building was at once begun on a new site, at the corner of Pine Avenue and University St., and in 1910 the greater part of it was ready for occupation. In 1911 it was wholly available for the work of the Faculty which can now boast of one of the most modern and well-equipped medical buildings on this Continent.

MATRICULATION.

For particulars see pages 52 to 63.

PHYSICAL EXAMINATION.

For information see page 66.

REGISTRATION.

See page 71.

BOARD AND RESIDENCE.

See page 72.

FEES.

See page 99.

REQUIREMENTS FOR LICENCE TO PRACTISE.

Intending students are reminded that a University degree in Medicine does not always give a right to practise the profession of medicine. It is necessary to conform with the medical laws of the country or province in which it is proposed to begin practice. Each province in Canada at present has its special requirements for licence, and in most provinces a special standard of general education is insisted upon before beginning the study of Medicine. Students who intend practising in Canada are warned that in certain of the provinces it is necessary to be registered five years before obtaining a licence to practise. It follows that entrance qualifications must be registered in the province in which the student intends to practise at the beginning of his course in Medicine.

For the convenience of students, a list of names and addresses of the Registrars of the Medical Councils in the several provinces is here given. They should comply with the requirements for registration in one or other of the provinces, before entering on their course in the Faculty of Medicine.

QUEBEC.—Dr. J. Gauvreau, Dandurand Bldg., corner of St. Catherine and St. Denis Streets, Montreal.

ONTARIO.—Dr. H. Wilberforce Aikins, 170 University Avenue, Toronto.

NEW BRUNSWICK.—Dr. Stewart Skinner, St. John.

NOVA SCOTIA.—Dr. W. H. Hattie, Halifax.

PRINCE EDWARD ISLAND.—Dr. James Warburton, Charlottetown.

NEWFOUNDLAND. Dr. H. Rendell, St. John's.

MANITOBA.—Dr. J. E. Coulter, Winnipeg.

ALBERTA.—C. E. Race, Esq., B.A., Registrar University of Alberta, Edmonton.

SASKATCHEWAN.—Dr. G. A. Charlton, Regina.

BRITISH COLUMBIA.—Dr. A. P. Proctor, Vancouver.

DOMINION REGISTRATION.

In order to take the examinations of the Medical Council of Canada a candidate must have the licence of a Canadian province or he must present a certificate from the Registrar of a Provincial Medical Council that he holds a medical degree accepted and approved of by the Medical Council of said province.

Full information may be obtained by writing to the Registrar, Dr. R. W. Powell, 180 Cooper Street, Ottawa, Ontario.

GENERAL COUNCIL OF MEDICAL EDUCATION AND ENREGISTRATION OF GREAT BRITAIN.

The Matriculation Examination in Medicine of this University is accepted by the General Medical Council of Great Britain. Graduates of this University who desire to register in England are exempted from any examination in preliminary education on production of the McGill Matriculation certificate. Certificates of this University for attendance on lectures, practical work and clinics are also accepted by the various examining boards in Great Britain. To obtain a licence from the General Council it is necessary to pass one of the examining boards of Great Britain in both primary and final subjects.

Detailed information may be obtained from one of the three registrars: Henry E. Allen, B.A., 299 Oxford Street, London; James Robertson, 54 George Street, Edinburgh; Richard J. E. Roe, 35 Dowson Street, Dublin.

RECIPROCITY WITH GREAT BRITAIN.

The General Council of Medical Education and Enregistration of Great Britain has entered into reciprocal relations with the Medical Councils of the Provinces of Quebec, Ontario, Nova Scotia, Prince Edward Island, Saskatchewan, Manitoba and New Brunswick. A

holder of a degree in Medicine of McGill University who has obtained the licence of the Province of Quebec, may register with the Medical Council of Great Britain. He will thus be eligible for competitive examination for the Army, Navy and Civil Service, and will be allowed to practise in Great Britain, South Africa, Australia, India and the West India Islands without further examination.

COURSE OF STUDY FOR THE DEGREE OF M.D., C.M.*

The undergraduate course in Medicine extends over six years.

FIRST YEAR.

(Of the six year course.)

Biology (General Biology and Zoology).
Chemistry.
Physics.
English and another cultural subject.

The subjects to be studied in the second year of the six-year course will be stated in the Medical Calendar.

The requirements for the second, third, fourth and fifth years of the five year course are as follows:—

SECOND YEAR.

Anatomy.
Chemistry (Biological and Organic).
Physiology.
Histology.

THIRD YEAR.

Pharmacy.
Anatomy (Neurology).
Physiology.
Pathology (General).
Bacteriology.
Chemistry (Physiological and Clinical).
Parasitology.
Pharmacology.
Medicine (Clinical).
Surgery (Clinical).
Microscopy (Clinical).

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* It is possible that important changes will be made in the requirements for this degree. If so, announcement of the fact will be made in the Medical Calendar.

In this year the students visit the hospitals for the first time and receive instruction in small groups in the elements of clinical medicine and surgery.

FOURTH YEAR.

Anatomy (Medical and Surgical).
Hygiene.
Medical Jurisprudence.
Pharmacology and Therapeutics.
Medicine and Clinical Medicine.
Surgery and Clinical Surgery.
Obstetrics.
Gynæcology.
Mental Diseases.
Ophthalmology.
Oto-Laryngology.
Pediatrics.
Pathology.

In this year two medical and two surgical theatre clinics are given weekly in the Montreal General and Royal Victoria hospitals. Out-patient clinics are given to groups of students twice weekly in gynæcology and once weekly in ophthalmology and oto-laryngology. In addition, on four days of the week instruction is given to groups at the bedside, in the laboratories, and in the medical and surgical out-patient departments. The work in hygiene consists of lectures, demonstrations and laboratory work.

FIFTH YEAR.

Medicine and Clinical Medicine.
Surgery and Clinical Surgery.
Obstetrics.
Gynæcology.
Ophthalmology.
Oto-Laryngology.
Pathology.
Dermatology.

In this year most of the students' time is spent in the hospitals. Theatre clinics are given twice weekly in each hospital in medicine and surgery. There are also daily ward classes to groups of students in these branches. In the out-patient departments of both hospitals clinics are given to groups of students in the various special branches of gynæcology, ophthalmology, oto-laryngology, dermatology, neurology, orthopædics, pediatrics and genito-urinary diseases. Clinics,

ward classes and demonstrations in obstetrics are given in the new Maternity Hospital. Students of the fourth and fifth years attend the Alexandra Hospital in groups for instruction in infectious diseases. The clinical instruction in mental diseases is given in the wards of the Protestant Hospital for the Insane at Verdun.

MEDALS, PRIZES AND FELLOWSHIPS.

See pages 91 and 92.

QUALIFICATIONS FOR THE DEGREE.*

1. No one will be admitted to the degree of Doctor of Medicine and Master of Surgery who shall not have attended lectures for a period of six eight-month sessions in this University, or some other university, college or school of medicine, approved by this University (except in the case of those who have already completed the work of the First Year). Students of other universities, so approved, who may be admitted on production of certificates to a like standing in this University shall be required to pass an examination in primary subjects, and all examinations in the final subjects in the same manner as students of this University.

2. Candidates for the final examination shall furnish testimonials of attendance on the following branches of medical education; provided, however, that testimonials equivalent to, though not precisely the same as those stated, may be presented and accepted:—

Biology, General Chemistry, Practical Chemistry, Physics, Histology, Embryology, Anatomy and Practical Anatomy, Physiology and Practical Physiology, Organic Chemistry, Biological Chemistry, Physiological Chemistry, Pharmacy, General Pathology, Bacteriology, Clinical Microscopy, Pharmacology, Therapeutics, Medical Jurisprudence, Hygiene and Public Health, Medical and Surgical Anatomy, Operative Surgery, Special Pathology, Morbid Anatomy, Clinical Chemistry, Principles and Practice of Surgery, Clinical Surgery, Theory and Practice of Medicine, Clinical Medicine, Obstetrics and Diseases of Infants, Gynæcology, Pediatrics, Mental Diseases, Ophthalmology, Oto-Laryngology.

He must also produce certificates of having assisted at six autopsies, of having dispensed medicine for a period of three months, of

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* It should be understood that the programme and regulations regarding courses of study and examination contained in this calendar hold good for this calendar year only, and that the Faculty of Medicine, while fully sensible of its obligations towards the students, does not hold itself bound to adhere absolutely, for the whole of a student's course, to the conditions here laid down.

having assisted at twenty vaccinations, and of having, under the direction of a properly qualified anæsthetist, administered an anæsthetic at least six times.

Courses of less length than the above will only be received for the time over which they have extended.

3. No one will be permitted to become a candidate for the degree who shall not have attended at least one full session at this University.

4. Every candidate must give proof of having attended during at least twenty-four months the practice of the Montreal General Hospital or the Royal Victoria Hospital, or of some other hospital of not fewer than 100 beds, approved by this University.

5. He must give proof of having acted as clinical clerk for six months in medicine and six months in surgery in the wards of a general hospital recognized by the Faculty, and of having reported at least ten medical and ten surgical cases.

6. He must also give proof of having attended for at least nine months the practice of the Montreal Maternity or other lying-in hospital approved by the University, and of having acted as assistant for at least twenty cases.

7. Every candidate for the degree must, on or before the 20th day of April, present to the Registrar of the Medical Faculty testimonials of his qualifications, entitling him to an examination, and must at the same time deliver to the Registrar of the Faculty an affirmation or affidavit that he has attained the age of twenty-one years.

8. The examinations to be undergone by the candidate shall be in the subjects mentioned on page 281.

9. The following oath or affirmation will be exacted from the candidate before receiving his degree:—

Ego, A——— B———, Doctoratus in Arte Medica titulo jam donandus, Sancto coram Deo cordium scrutatore, spondeo:—me in omnibus grati animi officiis erga hanc Universitatem ad extremum vitæ halitum persevaturum; tum porro artem medicam caute, caste et probe exercitaturum; et, quod in me est, omnia ad ægrotorum corporum salutem conducentia cum fide procuraturum; quæ denique inter medendum visa vel audita silere conveniat, non sine gravi causa vulgaturum. Ita præsens mihi spondenti adsit Numen.

EXAMINATIONS.

Frequent oral examinations are held to test the progress of the student, and occasional written examinations are given throughout the session.

Class examinations are held during the session in each of the first year subjects, the marks obtained being added to the total marks obtained at the final examinations.

If the standing obtained by any student in the class examinations is not satisfactory, he shall not be permitted to take the final examinations.

1. A minimum of 50 per cent. in each subject is required to pass and 75 per cent. for honours.

2. The work of one session must be completed and all examinations passed before a student is permitted to advance to the next.

3. Students who fail at the regular examinations in not more than three subjects of the first or second year and in not more than two subjects of the third and fourth years, may, at the discretion of the Faculty, be allowed to take the supplementary examinations before the beginning of the following session. These examinations will be held during the week preceding the regular opening of the session.

Those who fail in more subjects than are above specified are not eligible for supplemental examinations.

4. Students who fail to pass in a subject in which practical work is required may, at the discretion of the examiner, be required to repeat the course and furnish a certificate of attendance thereon.

5. Students who fail in one subject only of the final year may, at the discretion of the Faculty, be allowed a supplemental examination in that subject. Should the subject be one in which practical or clinical work is required, the student must furnish a certificate of additional hospital attendance or laboratory work before presenting himself for examination.

6. Students who fail at the examination held at Christmas may, at the discretion of the examiners, be granted supplemental examinations at a period not less than three months after the regular examinations.

7. A student who, after being registered in the first, second, third or fourth years for three successive sessions, fails to qualify for advancement, or who, after being registered in the final year for three successive sessions, fails to qualify for the degree, shall not be permitted to register again as a student of Medicine in the University.

8. Applications for supplemental examinations must be in the hands of the Registrar at least three days before the date set for the beginning of the examination, and they must be accompanied by a fee of $5.00 for each subject.

MICROSCOPES AND HAEMOCYTOMETERS.

Each student is required to provide himself, on beginning his studies, with a first-class microscope for laboratory and private study throughout his course. The Faculty will supply the instruments neces-

sary for demonstrations, etc. The microscope must be of substantial construction and be provided, as a minimum, with the following accessories:—$^2/_3$ $^1/_6$ and $^1/_{12}$ oil immersion, and a substage condenser. Such an instrument will last a life-time and is an essential part of the equipment of a practitioner in medicine.

Should the students entering the Faculty of Medicine not be provided with such microscopes, they may purchase new guaranteed instruments through the Bursar's Office of the University for the sum of $90.00 each.

Each student of the third year is required to have a hæmocytometer, and, in order that an instrument of uniform value and accuracy may be in the hands of all students, the University has purchased a supply, which will be sold at cost price.

DOUBLE COURSES.

See pages 118 and 123.

COURSES OF LECTURES.

Details of the work done in the several subjects of the course for the M.D. degree will be found in the special calendar issued by the Faculty.

DEPARTMENT OF PHARMACY.

GENERAL ANNOUNCEMENT.

The Fourth Session of the Department of Pharmacy will be opened on Friday, October 1st, 1920.

The Montreal College of Pharmacy, organized as a teaching body in 1867, for fifty years successfully carried on the work of instructing pharmaceutical students, and for many years it was the only institution in the Province of Quebec offering such instruction.

As a result of negotiations carried on during the summer of 1916, the College of Pharmacy was taken over by the University, and a Department of Pharmacy was instituted in connection with the Faculty of Medicine. Instruction is, therefore, now given in the class rooms and laboratories of the University, and the students of Pharmacy have access to its splendid equipment.

The work of the Department embraces courses in Botany, Physics, Chemistry and Practical Chemistry, Theoretical and Practical Pharmacy, Dispensing, Materia Medica and Toxicology.

Examinations in each subject are held at the close of the course. All students must take these examinations, and those who pass in all subjects of the curriculum, as required by the Pharmaceutical Association of the Province of Quebec, will receive the University Diploma of Pharmacy. A minimum of 60 per cent. in each subject is required to pass, and 80 per cent. for honours. The examination requirements of the Pharmaceutical Association of the Province of Quebec for licence to practise pharmacy in the Province will be found in the special announcement of the Department, which will be sent on application.

MATRICULATION.

For entrance into the Department of Pharmacy the University accepts the preliminary examination of the Pharmaceutical Association of the Province of Quebec, particulars of which can be obtained from the Secretary of the Association, 249 St. Catherine Street East, Montreal. Students may also enter by passing the matriculation examination prescribed for the Faculty of Medicine. (See pages 52 to 63.)

FACULTY OF DENTISTRY.

GENERAL ANNOUNCEMENT.

In the autumn of 1903, the Dental Association of the Province of Quebec approached the University, asking that a dental department be instituted in connection with the Medical Faculty, and, as a result of negotiations continuing through the session of 1903-04, the University established such a department. This department was not independent, but was a section of the Medical Faculty.

During the Session 1919-20, the University created a separate faculty, to be known as the Faculty of Dentistry; this will, in consequence, be the first session of Dentistry as a Faculty.

Students may register in the Faculty of Dentistry after passing the matriculation required in McGill University, but those wishing to practise in the Province of Quebec, except those who hold a degree in Arts from a recognized British or Canadian University, must pass the matriculation examination of the College of Dental Surgeons of the Province of Quebec.

In all four years the students in dentistry will take their lectures and practical work in those departments of the University specially qualified and equipped to teach the various subjects.

By arrangement with the Montreal General Hospital, the clinical work of the third and fourth years will be taken at that Institution, where the dental clinic forms a part of the Out-Patient Department.

REQUIREMENTS FOR THE DEGREE.

The degree of Doctor of Dental Surgery (D.D.S.) will be conferred by McGill University on any student who has fulfilled the following requirements:—

1. Has attained the age of 21 years.
2. Is of good moral character.
3. Has passed all required examinations.
4. Has completed the full term of four years.
5. Has paid all fees.

For full particulars of the Faculty of Dentistry, consult the special catalogue of the Faculty, a copy of which will be sent on application to the Dean, Dr. A. W. Thornton.

FACULTY OF MUSIC.

LOCAL EXAMINATIONS.

Public local examinations are held yearly at various centres throughout the Dominion by examiners sent out by the University.

These examinations may be looked upon as preparatory to the examinations for diplomas and degrees in Music granted by the University. There are in most of the subjects five grades, and certificates gained in the higher grades will exempt the candidate from certain portions of the examinations for a diploma or degree.

DIPLOMA OF LICENTIATE IN MUSIC.

Candidates for this diploma may elect to be examined in one of the following:—

Theoretical subjects and composition.....(Class I)
Practical subjects as performers.....(Class II)
Both theory and practice as teachers.....(Class III)

The candidate must pass three examinations:

First Examination:—

(a) Rudiments of music, including sight reading and ear tests.
(b) Harmony in four parts up to, and including, dominant 9th. (A practical test will be substituted for performers.)
(c) Counterpoint in two parts. (Practical test substituted for performers.)
(d) Chief subject of study.

The possession of the Highest Grade certificate of the local theoretical examinations will exempt candidates in Class I from this examination. In Class II, exemption may be claimed if the candidate has passed the Highest Grade (practical) and the Senior or the Intermediate Grade (theoretical) of the local examinations.

In Class III candidates must hold the Senior Grade (theoretical) and the Highest Grade (practical) certificates in order to claim exemption.

In the *Second and Third examinations*, between which a year must elapse, the requirements for Classes I and III are, on general lines, similar to those for the first and second Mus. Bac. examinations respectively. In the case of Class II, practical tests are substituted for many of the theoretical tests. Candidates in Class III will, in the final examination, have to pass in "The Art of Teaching Music," which will be partly *viva voce* and partly paper work.

In both the Licentiate and Mus. Bac. examinations, considerable latitude is allowed in the choice of a second practical study. Total exemption from examination in it will be allowed if the candidate possesses recent certificates gained in the higher grades of the local examinations in that subject.

Those holding the diploma of L. Mus. can at any time during the five years immediately following their passing that examination enter for the Mus. Bac. final examination, but they must pass the matriculation examination.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF MUSIC.

Candidates for the degree must have passed the following examinations:—

1. The Matriculation Examination. (See page 53.)
2. The First Examination in Music, at the end of the first year.
3. The Second Examination in Music, at the end of the second year.
4. The Final Examination.

The particulars of the work for each of the above examinations are as follows:—

First Examination in Music:—

(a) Advanced rudiments.
(b) Harmony in 3 and 4 parts.
(c) Counterpoint up to 3 parts.
(d) Form and analysis. Questions will be given on accent, cadence, metre, rhythm, phrasing, etc., and on form, shown in the work of the early classicists (Scarlatti, Bach, Mozart and Haydn).
(e) General outlines of musical history.
(f) Chief and second practical study, or, instead of one of these, the composition of a song (or songs) or a miniature suite for piano (or violin and piano or any other combination).

Second Examination in Music:—

(a) Harmony in not more than 4 parts.
(b) Counterpoint in not more than 4 parts.
(c) Canon in 2 parts and fugal exposition up to 4 parts.
(d) History of music from the 16th century to the present day.
(e) Form and analysis. The candidate must show an intimate knowledge of a few compositions, the names of which will be supplied on application, at least three months before the date of examination.

(f) Elementary knowledge of acoustics, or physiology of voice.
(g) Chief and second practical study, or, instead of one of these, the composition of:—(1) A movement in sonata form for pianoforte (or piano and violin, or any other combination), or (2) chorus with independent accompaniment, or (3) suite for strings.

Final Examination in Music:—

(a) Harmony up to 5 parts.
(b) Counterpoint up to 5 parts.
(c) Double counterpoint in 8ve., 10th, and 12th.
(d) Canon and fugue in 4 parts.
(e) History of music from the earliest to the present time.
(f) Form and analysis. A knowledge will be required of such works as the following:—Bach's 48 Preludes and Fugues, Beethoven's Sonatas, Schubert, Schumann and Brahms' Songs, Mendelssohn's Psalms and such Oratorios as Elijah and St. Paul. (The candidate should send in a list of works, in which he or she is prepared to be examined, a few weeks before the day of examination.)
(g) Instrumentation—a knowledge of the compass and capabilities of all instruments in the modern orchestra, and the scoring of a given passage in a given time, also the reading at sight of a short excerpt from an easy score of an early work by Mozart or Beethoven.
(h) Chief and second practical study (or in lieu of both of these a composition can be sent in by the candidate containing 4-part chorus, a solo or duet, an unaccompanied quartette and a 4-part fugue—the whole scored for stringed instruments with independent accompaniment).

Graduates (those holding the degree of Bachelor of Music) of other Universities can be admitted to an *ad eundem* degree of Bachelor of Music at this University if they are proceeding to the McGill degree of Mus. Doc. and have satisfied the University authorities in all requirements and paid the necessary fees for the same.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF MUSIC.

Bachelors of Music of McGill University, after the lapse of a period of three years from the time of taking the degree of Bachelor of Music, may proceed to the degree of Doctor of Music, the requirement for which is a composition in extended form, such as an oratorio, opera or cantata. This exercise must have as its first number an introductory orchestral movement in the usual concert-

overture form, and must contain eight-part writing and fugal treatment. It must be scored for a full orchestra. This original and unaided composition, if approved of, may be publicly performed by the candidate in the University or some other fit and proper place, at the discretion of the University. In addition, an examination in the higher forms of composition shall be necessary, together with a critical knowledge of the full scores of certain prescribed works.

Full particulars with regard to degrees and diplomas in Music, as well as those relating to local examinations not included in the above, will be found in the special Music Syllabus obtainable on application to the Secretary of the McGill University Conservatorium of Music.

DEPARTMENT OF PHYSICAL EDUCATION.

FOR MEN.

DIRECTOR, DEPARTMENT OF PHYSICAL EDUCATION:—ARTHUR S. LAMB, B.P.E., M.D.

UNIVERSITY MEDICAL OFFICER:—F. W. HARVEY, B.A., M.D.

All students, on entering the University, are required to pass a physical examination (see page 66). By such an examination any physical defect or weakness may be discovered early, and the student will be advised in regard to treatment. For those defects amenable to treatment by exercise or other hygienic measures, individual attention will be given, and the students will be advised as to what forms of exercise will be likely to prove beneficial or harmful.

I. GENERAL.

The aim of the University requirements in physical training is the maintenance and improvement of the physical well-being of the student body, and the production of graduates who are physically as well as mentally fitted for their life-work.

As voluntary exercise is of greater value than is compulsory, great latitude is given the individual student in his choice of the form which his physical training will take.

The chief factors limiting this choice are:—

1. The suitability of the exercise as a means of physical training.
2. The physical fitness of the individual student to take the form of exercise chosen.
3. The possibility of effective supervision.
4. The practicability of ensuring regular participation.

The aim is not to replace the existing forms of University athletics, but to assist in developing an interest in these by every legitimate means.

II. REGISTRATION.

1. At the time of registration every male student of the first three years in the Faculties of Arts, Medicine, Dentistry and Science, and of the first two years in the Faculty of Law shall be given a printed announcement of the University requirements in physical training.* This announcement shall include a list of the recognized

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* *Note*:—For the session 1920-21 and until further notice, this regulation will only apply to students of the first two years in the Faculties of Arts, Science, Medicine and Dentistry.

forms of physical activities in which a student may take part in fulfilment of the requirements, and a statement that at the time of his medical examination he will be expected to indicate his choice of the particular forms which he wishes to follow.

2. At the time of his medical examination, each student shall be required to fill in a card indicating his choice, as outlined in paragraph B. 1. The Director shall then decide as to his physical fitness for the forms chosen and shall inform the student of his decision and note the same on his card, which shall be filed for reference.

3. Every student shall be categorized by the University Medical Officer as either:—

(A) Fit for all forms of physical exercise.
(B) Fit for a limited number of forms.
(C) Fit for gymnasium work only.
(D) Fit for remedial gymnastics, or temporarily unfit.
(E) Unfit for any forms of physical exercise.

III. EQUIVALENTS.

1. The following activities are recognized as fulfilling the requirements:—

University Rugby Football Team.
University Track Team.
University Hockey Team.
University Basketball Team.
University Boxing, Wrestling and Fencing Teams.
University Swimming and Polo Teams.
University Harrier Team.
University Ski Team.
Gymnasium Classes.
McGill Contingent, C.O.T.C.
And such other activities as shall be decided upon from time to time by the Committee on Physical Education.

2. Subject to the approval of the Director, as laid down in paragraph B. 2, any student who desires to participate in competitive athletics, as mentioned in paragraph C. 1, may be excused from other forms of exercise during the season of training, providing that this is performed to the satisfaction of the Director.

3. If successful in making a place on the team, he shall be excused from any other forms of exercise for the season of play, and *may* be excused for the remainder of the term at the discretion of the Director.

4. Any student who has been placed in Categories A, B, C or D at his University medical examination, and who does not voluntarily take part in any of the other recognized forms of exercise as provided above, shall be required to attend the regular gymnasium classes appropriate to his category.

IV. ATTENDANCE.

1. The amount of time required to be devoted to physical exercise by each student shall be two hours per week throughout the session. Until such time as the University is in possession of its own gymnasium, however, this amount of time may be reduced by the Committee on Physical Education to meet the exigencies of gymnasium accommodation.

2. A record will be kept of the attendance of every student as far as his required physical training is concerned.

3. Unexcused absences up to one-eighth of the required number of periods shall be allowed. Unexcused absences exceeding one-eighth, but not exceeding one-quarter, may be allowed if at the end of the session the student passes a special examination and satisfies the Physical Director that he has made sufficient progress. Unexcused absences exceeding one-fourth shall disqualify a student. Such students shall be required to take extra gymnasium class work to the satisfaction of the Director.

4. At regular intervals during each session and also at the end of each session, the Director of Physical Education shall furnish the Dean of each Faculty with a list of students who have failed to meet the attendance requirements as laid down in the ordinary curriculum, or who have proved unsatisfactory in other respects, and such cases shall be dealt with by the respective Faculties.

No student in default shall be allowed to proceed to the next year of his course without the approval of his Faculty.

Not less than one month before the conferring of degrees in each Session the Director shall furnish to the Registrar of the University, for transmission to Corporation and the Faculties concerned, a list of all students, being candidates for degrees at the forthcoming Convocation, who have failed to satisfy the requirements of the Committee on Physical Education, and no Diploma for a degree shall be issued to any such candidate unless by the express direction of Corporation.

V. EXEMPTIONS.

Claims for exemption from the above requirements shall be made in the first instance to the Director, who shall refer them to a sub-

committee on exemptions appointed by the Committee on Physical Education.

MEDALS.

The Wicksteed silver and bronze medals for physical education (the gift of the late Dr. R. J. Wicksteed) are offered for competition to students of the graduating class and to students who have had instruction in the gymnasium for two sessions; the silver medal to the former, the bronze medal to the latter. The award of these medals is made by judges appointed by the Corporation of the University. Every competitor for the silver medal is required to lodge with the judges, before the examination, a certificate of good standing in the graduating class, signed by the Dean or Registrar of the Faculty to which he belongs, and the medal will not be awarded to any student who may fail in his examination for the degree.

STRATHCONA CERTIFICATE COURSE.

The Departments of Education (see page 158) and Physical Education offer the following courses:—

For Men Undergraduates of the Fourth Year.

A course of 20 lessons of 1½ hours each on the principles and practice of physical education. The courses will cover elementary anatomy, physiology and hygiene, the theory of gymnastics and class teaching.

Students who satisfactorily complete this course are entitled to certificate "B" of the Strathcona Trust, and their work is included in the requirements of the First Class Academy Diploma of the Province of Quebec.

FOR WOMEN.

(ROYAL VICTORIA COLLEGE.)

Director of the Department:—A. S. Lamb, B.P.E., M.D.
University Medical Officer:—F. W. Harvey, B.A., M.D.
Physical Director for Women:—Miss Ethel M. Cartwright.
Asst. Physical Director for Women:—Miss Georgina M. Wood.

Classes in educational gymnastics for all undergraduates of the College and for resident students of music are conducted in the gymnasium of the Royal Victoria College (see page 312). All students on entering the University are required to pass a physical examination (see regulation on page 66) and are also required to pass satisfactory physical tests before taking part in any of the outdoor or indoor physical exercises organized by the Physical Department, whether educational, remedial or recreational.

Work in the Physical Education Department throughout the four-year course (amounting to 140 hours in all) is required of all undergraduate students.* These periods will be used for instruction in personal hygiene and for educational, remedial and recreative gymnastics, according to the physical requirements of the individual. No student will be asked to do work unsuited to her physique, and students debarred from exercise of any kind will be dealt with separately and carefully advised.

Partial students are admitted to the classes in educational and recreative gymnastics on payment of a fee of $50.00 (see page 103).

Reports of attendance in physical education will be regularly sent to the Faculty.

Strathcona Prizes.—Three first prizes of $8, $10 and $12, and three second prizes of $5, $6, $9, are open to students for competition in the second, third and fourth years respectively. Two prizes of $5 are offered for competition to the students of the first year; one for students who have taken part in educational gymnastics at school, and the other for students who have had no previous physical training.

All competitions will be held under the following regulations:—

1. Competitors will be awarded 50 per cent. of the marks on the work of the session.

2. No prize shall be awarded unless the judges consider the work up to the standard of 75 per cent.

3. The prizes shall not be awarded in the second, third and fourth years should the winner fail to obtain her full academic standing. The prizes in the first year shall not be awarded if the winners fail in more than one subject at the sessional examinations.

4. Competitors will be judged on the work taught in the Physical Education Department during the session, the Physical Director for Women arranging all details concerning the competition. A programme of the competitions will be posted not later than March 1st.

5. Judges for these competitions shall be appointed yearly by the Committee on Physical Education.

STRATHCONA CERTIFICATE COURSE.

A course similar to that announced on page 294 is given for the women undergraduates of the fourth year.

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*In all cases of absence the student is required to report to the Physical Director for Women. The ordinary interpretation of the one-eighth rule concerning absences does not apply in this Department. Every student is required to wear the costume recommended by the Department.

McGILL SCHOOL OF PHYSICAL EDUCATION.

This school was founded under the Teachers' Training Committee in June, 1912, to train teachers of physical education for school work, recreational and social work.

In 1914 a course was added in massage and remedial gymnastics to meet the growing demand for trained masseuses, especially in view of the urgent needs of returned wounded soldiers.

In 1919 the School was placed under the control of the University.

The courses provide a thorough all round training extending over two years, but they are independent, and for the present either may be taken separately.

COURSE I.—EDUCATIONAL COURSE.

Practice in Teaching.—Great stress is laid on the practice of teaching. Owing to exceptional facilities, every student will be given the opportunity to conduct classes, games and dances, with helpful supervision from expert teachers.

Entrance Requirements.—It is highly desirable that the teachers of Physical Education shall have reached a good standard of general culture, hence the following will be required for entrance to the course:—High School Leaving Certificate, or Matriculation, or the Model Diploma of the Province of Quebec, or equivalent qualification, at the discretion of the Committee.

Medical Examination.—All students will be required to pass a satisfactory physical examination before proceeding with the course.

Diploma.—Examinations will be held in all regular subjects and certificates will be granted at the end of each year for work done. Fifty per cent. required to pass; 60 per cent. for second class; 75 per cent. for first class; but in all cases at least 60 per cent. must be made on teaching. The Diploma, granted on successful completion of the course, is recognized by the Protestant Board of School Commissioners of Montreal as qualifying for the salary of specialist in public schools.

COURSE II.—MASSAGE AND REMEDIAL GYMNASTICS.

(For Hospital and Private Work.)

Course II—offered Session 1914-1915 for the first time—is intended to meet the growing demand for experts in this important branch of physical work. The knowledge of massage, remedial gymnastics and the various forms of physical therapy is more and more recognized as necessary in medical and educational practice. It has proved of the utmost value in the treatment of convalescent soldiers.

The Course will be of special value to graduate nurses who wish to obtain additional qualifications, and to those engaged in physical education.

The treatment of postural and other defects of school children cannot be effectively carried out in large gymnastic classes, but should be supplied by experts who can give individual attention to such cases.

SUBJECTS.

Courses I. and II.	Course I. only.
Anatomy (general and applied)	Educational Gymnastics
Physiology	Games
Physiology of Exercise	Dancing and Folk Dancing
Hygiene (personal, school and public)	Class Management and Teaching
Theory of Movement	Remedial Gymnastics
Anthropometry	History of Physical Education
Physical Diagnosis	Educational Psychology
First Aid	Psychology of Play
Heredity and Evolution	Swimming and Life-saving

Course II. only

Theory and Practice of Massage and Medical Gymnastics
Electro-therapy, Mechano-therapy, Photo-therapy, Hydro-therapy
Elementary Educational Gymnastics

PLAYGROUND SUPERVISION.

No special course is offered, but graduates of Course I who have taken handwork and kindergarten in addition to their courses are fully equipped to undertake the supervision of playgrounds.

For full particulars of all courses, see syllabus, to be obtained from the Secretary, School of Physical Education, McGill University.

MILITARY TRAINING.

In view of the fact that the Federal Government has not as yet adopted any general policy with regard to military training no instruction in military science will be given at McGill University during the session 1920-21, except perhaps in the Faculty of Applied Science, where an alternative may be allowed in the fourth year between Field Engineering, Map Reading and Field Sketching and Military Administration and Organization on the one hand and certain selected subjects in the several courses, as shown on pages 192 to 203.

CANADIAN OFFICERS' TRAINING CORPS.

(McGill University Contingent.)

In order to provide undergraduates with practical military training, a contingent of the Canadian Officers' Training Corps was organized at McGill University two years before the war began, and is still being maintained. Students are thus afforded an opportunity of preparing themselves for service as officers in the Canadian Militia. The contingent is a unit of the active militia, being governed by special regulations, under which it cannot be called out for active service as a unit.

The training is intended to bring the largest possible number of students up to the standard required for the two certificates (A and B) of proficiency. The value of these certificates lies in their being a guarantee of consecutive training for two or more years, of a nature calculated to produce good officers. If a member, who is in possession of a certificate, is recommended for a commission in the Active Militia, this certificate entitles him to rank as an officer without any further qualification, and also to certain other advantages.

To obtain a Certificate (A or B) a member must complete two years *efficient* service in the corps, and pass the written and oral examinations prescribed for the respective certificates. To be efficient in a given year (1st August to 31st July), a member must have attended 40 parades if in his first year of service, or 25 parades if in a subsequent year, and must have completed the prescribed course of musketry. The time required is about two hours per week each session.

Each member, upon joining the contingent, will be required to deposit the sum of $5.00 with the Adjutant; for which a receipt will be given. This money will be refunded if the member becomes efficient; otherwise it will go into the funds of the contingent.

The training in the corps is of such a nature that all students are recommended to join. Enlistment is, however, purely voluntary.

THE GRADUATE SCHOOL.

In the Graduate School are enrolled all the graduate students in the University who are following advanced courses of study in subjects which in the undergraduate work fall within the scope of the Faculties of Arts, Law, and Applied Science.

The Faculty of the Graduate School consists of the professors of the Faculties of Arts, Law, and Applied Science, but the initiative and administration of the School is placed in the hands of a Committee selected mainly from these Faculties and known as the Committee on Graduate Studies. The Chairman of this Committee is the official head of the Graduate School. The advanced courses of study offered in the Graduate School lead to the degrees of Master of Arts, Master of Science, Master of Laws, and Doctor of Philosophy.

Instruction for students of the Graduate School is provided in the following departments of study which at present rank as "Subjects":

Philosophy, including Psychology.
History.
Economics and Political Science.
Greek Language and Literature (including Grecian History).
Latin Language and Literature (including Roman History).
French Language and Literature.
German Language and Literature.
English Language and Literature.
Semitic Studies.
Archæology.
Comparative Philology.
Education.
Mathematics.
Physics.
Chemistry.
Botany.
Zoology.
Geology and Mineralogy.
Thermodynamics and Theory of Heat Engines.
Theory of Elasticity, Strength of Materials and Theory of Structures.
Hydrodynamics and Hydraulics.
Applied Electricity.
Theory of Machines and Machine Design.
Metallurgy.
Mining.
Law.

The requirements for the several degrees in course are as follows:

DEGREE OF MASTER OF ARTS.

1. Candidates must hold the degree of B.A. or B.Sc. (in Arts) from McGill University, or its equivalent.

2. Candidates must have taken:

(*a*) One year of resident graduate study at McGill University; or

(*b*) If graduates of McGill University, two or more years of private work; the amount of such work required may be stated to be the equivalent of one year of academic study.

3. One, two or three subjects may be taken.

4. One of these subjects shall be designated as the major subject and special attention shall be devoted to it. It must be a subject which the student has already studied in his undergraduate course, and the work required in it will represent an attainment in knowledge far in advance of that required for the B.A. degree. The minor subject, or subjects, may be selected from those of the undergraduate course of the third or fourth year which have not already been taken by the candidate. Not more than one-third of the candidate's time for the year shall be devoted to these subjects. The student shall pass an examination in each of the subjects of his course.

In the case of students of first rank honour standing in mathematics and physics, if the major work is to be in physics, exemption may be granted from part of the required attendance on lecture courses, on the recommendation of the Head of the Department in physics and subject to the approval of the Committee on Graduate Studies.

Candidates holding the ordinary B.A. degree must have taken all the ordinary undergraduate courses, or their equivalents, in the subjects which they select as their major.

5. The student shall also present a thesis on some topic connected with his major subject. The title of his thesis must have been previously submitted to the Committee on Graduate Studies and the Head of the Department concerned for their approval. The thesis must show evidence of distinct ability in dealing with the subject selected, and must also display good literary style.

6. Graduates possessing a Bachelor's degree, who act as demonstrators or tutors in the University for the entire session, may proceed to the degree of M.A., and, in so doing, may, at the discretion of the Department with which they are connected, and the Committee on Graduate Studies, omit a portion of the course of study. They shall, however, be called upon to pass an examination on the course of study which they have followed, and shall in all cases submit the thesis prescribed for that degree. If, however, they desire this year's work to count as one of the three years of study required for the Ph.D degree, they must make their course of study conform to the Ph.D requirements.

N.B.—The first year's course of study for the Ph.D. degree will cover the requirements of the M.A. course; but if such a course of study be followed, a thesis must be submitted and approved before the degree of M.A. is conferred. If, however, the student continues his course of study and takes the degree of Ph.D., the degree of M.A. will be conferred with the degree of Ph.D., in which case no special thesis will be required for the former.

DEGREE OF MASTER OF SCIENCE.

1. Candidates must hold the degree of B.A. or B.Sc. from McGill University, or its equivalent.

2. Candidates must have taken
   (*a*) One year of resident graduate study at McGill University; or
   (*b*) If graduates of McGill University, two or more years of private work; the amount of such work required may be stated to be the equivalent of one year of academic study.

3. The course of study followed by the candidate shall be of an advanced character, being the equivalent of that required for the degree of M.A., and shall lie in the domain of pure or applied science. It shall be selected from *one* of the last thirteen subjects in the list given above. Geodesy and ore dressing also constitute subjects in the case of this degree. This course of study must have been previously submitted to the Head of the Department and to the Committee on Graduate Studies and have received their approval.

In the case of students of first rank honour standing in mathematics and physics, if the major work is to be in physics, exemption may be granted from part of the required attendance on lecture courses, on the recommendation of the Head of the Department in physics and subject to the approval of the Committee on Graduate Studies.

4. The candidate shall also present a thesis on some subject connected with his course of study. The title of this thesis must have been previously submitted to the Head of the Department and to the Committee on Graduate Studies and have received their approval. This thesis must show evidence of distinct ability in dealing with the subjects selected and must also display good literary style. It may deal with some special topic, but the course of study followed by the student must cover a much wider field.

5. Graduates possessing a Bachelor's degree who act as demonstrators or tutors in the University for at least one entire session, may proceed to the degree of M.Sc., and, on so doing, may, at the discretion of the Committee on Graduate Studies, omit a portion of the course

of study usually required. They shall, however, be called upon to pass an examination on the course of study which they have followed, and shall in all cases submit the thesis prescribed for the degree.

DEGREE OF MASTER OF LAWS (LL.M.)

Candidates must (1) hold the degree of B.C.L. or LL.B., from McGill University, or its equivalent, or be graduates of an approved law school; (2) have pursued for one year a course of resident study at McGill University and must have submitted a thesis of conspicuous merit upon a subject previously approved by the Faculty of Law and by the Committee on Graduate Studies, and must have passed such examination as may be prescribed.

Applications to be admitted to study under this section must be made to the Committee on Graduate Studies, with particulars of the proposed thesis, not later than the 1st of February of the year in which the candidate proposes to enter upon his course of study. A printed or typewritten copy of the thesis must be delivered to the Dean of the Faculty of Law for transmission to the Committee on Graduate Studies not later than the 1st of April of the year in which the candidate proposes to proceed to the degree.

DEGREE OF DOCTOR OF PHILOSOPHY.

1. The candidate for the degree of Doctor of Philosophy must hold the degree of B.A. or B.Sc. from McGill University, or its equivalent.

2. He must have followed a course of at least three years' resident graduate study.

3. He must select one major subject and one minor subject. The minor subject selected must be related to his chief line of work. This minor subject shall have devoted to it about one-quarter of the instruction given during the entire course.

4. The candidate must satisfy the Committee that he has a reading knowledge of both French and German before he will be permitted to enter upon the course of the second year.

5. The examination on the major subjects shall cover not merely the formal courses of instruction which have been taken, but the candidate must show that he possesses a good general knowledge of the whole science or branch of learning which he has selected as his major subject. A similar general, though less detailed, knowledge shall be required in the case of the minor subject.

6. The candidate must also prepare a thesis which must display original scholarship or show marked ability to conduct research. If the thesis be accepted, two hundred printed copies of it must be

deposited with the University Librarian before the candidate will receive his diploma.

The University exacts a very high standard in the case of this degree, and at least three years of study are therefore demanded.

A three years' course leading to the degree of Doctor of Philosophy is offered in the following subjects taken as majors:—

Botany.
French.
Philosophy.
Physics.
Chemistry.
Semitic Studies.

Students desiring to proceed to the degree of Doctor of Philosophy in subjects other than those mentioned above may communicate with the Chairman of the Committee on Graduate Studies, to whom also applications should be made by all students desiring to follow courses of study in the Graduate School.

DEGREE OF DOCTOR OF CIVIL LAW.

Any person who has graduated as B.C.L. or as LL.M. from McGill University may after five years from such graduation proceed to the degree of Doctor of Civil Law, provided that he shall have written a thesis on a subject previously approved by the Faculty of Law and by the Committee on Graduate Studies, and that such thesis shall have been adjudged by the Faculty of Law and by the Committee on Graduate Studies to be a valuable contribution to legal science. The candidate may, instead of a thesis, submit to the Committee on Graduate Studies a published book or books dealing in a scientific way with some branch or branches of law, and in that case no previous approval is required. Three printed or type-written copies of the thesis or three copies of the book or books, as the case may be, must be delivered to the Dean of the Faculty of Law for transmission to the Committee on Graduate Studies not later than the 1st of February of the year in which the candidate proposes to proceed to the degree.

THESES.

Owing to the fact that in future all theses submitted by successful candidates for higher degrees will be bound and placed in the Redpath Library, candidates for such degrees are advised that the Committee on Graduate Studies will henceforth require all theses to be prepared in a uniform manner and in accordance with the following specifications:

1st.—The paper is to be of uniform size, about 8¼ x 10 inches, and of substantial quality.

2nd.—The left-hand margin is to have a uniform width of about 1½ inches.

3rd.—All theses should be typewritten, if possible.

4th.—No binding is to be employed, but the loose sheets will be placed in a manilla envelope in the order of their pagination.

All theses for 1920-21 *must be in the hands of the Chairman of the Committee on Graduate Studies on or before April 1st,* 1921, *except in the case of theses involving experimental work, when the time will be extended to April 16th. No thesis received after these dates will be accepted.*

REGISTRATION.

Application forms, with an outline of the course to be followed, must be filed with the Secretary, for the approval of the Committee, before the 10th of October of each year.

Students whose course extends over more than one year must register at the commencement of each year of their course.

Application forms and registration cards may be obtained from the Secretary of the Committee.

THE UNIVERSITY LIBRARY.

G. R. Lomer, M.A., Ph.D., Librarian.

The University Library is under the general management of a Committee of Corporation, consisting of the Principal, Chairman; the Librarian, Secretary; two members of the Board of Governors, one Representative Fellow, appointed by Corporation; two representatives of the Faculty of Arts, elected by the Faculty; one representative of each of the Faculties of Applied Science, Law and Medicine, elected by their respective Faculties; and four other members appointed by Corporation.

The several libraries of the University now contain 165,657 volumes, over 25,000 pamphlets, considerable collections of maps and photographs, and a number of the rarer and more costly monographs and serials which are indispensable for purposes of research. There are now on the shelves over 300 complete files of periodicals and publications of various literary and scientific societies.

Among the special collections possessed by the Library may be mentioned the Mendelssohn Choir Memorial Collection of Works on Music, the T. D. King Collection of Shakespeariana, the Redpath Historical Collection, and the Collection of Canadiana. The nucleus of the latter is formed by the choice library of the late Mr. Frederick Griffin, which he bequeathed to the University about forty years ago. It has been growing ever since, and includes, at the present time, besides numerous manuscripts, an interesting collection of Canadian portraits and autographs. The Canadiana have been further enriched by the recent gift of over 270 volumes and 50 pamphlets from the library of the late Mr. William McLennan, presented in his memory by his children.

The Redpath Historical Collection was begun by the late Mr. Peter Redpath soon after he became a Governor of the University. It received substantial yearly additions from him up to the year of his death, after which it was steadily augmented during the remainder of her life by his widow. It is now large and valuable, and affords excellent opportunities for the study of history. Its most striking feature—a series of political, religious and social tracts, for which the first selections were made by the late Professor Henry Morley—was greatly enriched by the late Mrs. Redpath, and at present comprises about 10,000 brochures, dating from 1600 A.D. to the end of the nineteenth century.

A special Architectural collection, to be known as the "Gordon Home Blackader Memorial Library," has been established in honour

of Captain Gordon Home Blackader, B.Arch. (McGill), who was wounded near Ypres on June 2nd, 1916, and died in London on August 20th of the same year.

"The Emma Shearer Wood Library of Ornithology" is being presented by Colonel Casey A. Wood, M.D., as a special research collection for use by all who are interested in birds.

The Medical Library, directly controlled by the Faculty of Medicine, is the largest of the departmental libraries, and is one of the most complete collections of its kind in the Dominion.

Current periodicals, with Transactions and other Society publications to the number of about 400 in the aggregate, are regularly received by the Library.

Founded in 1900, as a memorial to the late Mr. Hugh McLennan from his children, the Travelling Libraries of McGill University were endowed in 1911, by their founders. These libraries contain, each, from thirty to forty carefully selected volumes; and are sent, on application, and on payment of a nominal fee of $4.00, to schools, to country libraries, to reading clubs, and to small communities which possess no public library. Regulations and full particulars may be obtained from the Librarian of the University.

Although the Library is maintained primarily for members of the University, the Corporation has provided for admission, upon certain conditions, of such persons as may be approved by the Library Committee. It is the desire of the Committee to make the Library as useful to the entire community as is consistent with the safety of the books and the general interests of the University.

EXTRACTS FROM THE LIBRARY REGULATIONS.

1. The Library is closed on Sundays, and on certain other holidays, as noted in the *Calendar of Meetings*. With a few exceptions, which are posted in the Library at the appropriate time, the Library is open as follows:—

(a) During the session, from 9 a.m. till 6.30 p.m. and from 7.30 till 10.30 p.m. On Saturdays from 9 a.m. till 5 p.m., except on the first Saturday of each month, when it is closed at 1 p.m. for cleaning.

(b) During vacation, from 9 a.m. till 5 pm.. On Saturdays, from 9 a.m. till 1 p.m.

2. Students in the Faculties of Arts, Law, and Applied Science are entitled to read in the Library, and may borrow books (subject to the regulations) to the number of three volumes at one time.

3. Students in the Faculty of Medicine, who have paid the Library fee to the Bursar, may read in the Library, and on depositing the sum of $5 with the Bursar, may borrow books on the same conditions as students in other faculties.

4. Graduates in any of the faculties, on making a deposit of $5, are entitled to the use of the Library, subject to the same rules and conditions as students in Arts, Law, or Applied Science.

5. Books may be taken from the Library only after they have been charged at the delivery desk; borrowers who cannot attend personally must sign and date an order, giving the titles of the books desired.

6. Books shelved in the reading-rooms or seminary-rooms must not be taken from the rooms to which they have been assigned; and, after they have been used, they must be returned promptly by readers to their proper places upon the shelves.

7. Before leaving the Library, readers must return to the attendant at the delivery desk books which they have drawn from the stack for use in the reading-room.

8. All persons using books remain responsible for them so long as the books are charged to them, and borrowers returning books must see that their receipt is properly cancelled.

9. Writing or making any mark upon any book belonging to the Library is unconditionally forbidden. Any person found guilty of wilfully damaging any book in any way shall be excluded from the Library, and shall be debarred from the use thereof for such time as the Library Committee may determine.

10. Damage to or loss of any books, maps, or plates, and injury of library fixtures, must be made good to the satisfaction of the Librarian and the Library Committee.

Damage, loss or injury, when the responsibility cannot be traced, will be made good out of the caution money deposited by the students with the Bursar.

11. Should any borrower fail to return a book upon the date when its return is due, he may be notified by postal card, and requested to return the book. If the time has not been extended, or the book returned, after a further delay of at most three days, the book may be sent for by special messenger, at the borrower's expense, or may be replaced, and paid for, in the case of a student, out of the caution monies of such student; in the case of graduates or other borrowers, out of their library deposits.

12. Before the close of each session, students must return uninjured, or replace to the satisfaction of the Librarian, all books which they have borrowed.

13. Silence must be strictly observed in the Library.

14. Infringement of any of the rules of the Library will subject the offender to a suspension of his privileges, or to such other penalty as the nature of the case may require.

THE ROYAL VICTORIA COLLEGE.

Founded and Endowed by the late Rt. Hon. Baron Strathcona and Mount Royal.

FOUNDATION AND HISTORY.

The College was opened September 4th, 1899.

It is the outgrowth of plans conceived during the early years of his Principalship by the late Sir William Dawson, which resulted in the establishment of the Ladies' Educational Association. Under the auspices of the Association, courses of lectures, delivered chiefly by Professors of McGill University, were offered to women from 1870 until 1884, thus placing within their reach, to some extent at least, the advantages of a Collegiate and University education.

In 1884, during the principalship of the late Sir William Dawson, the late Lord Strathcona, then Mr. Donald A. Smith, gave a sum of $50,000, and, in 1887, a further sum of $70,000, to found the Donalda Endowment for the higher education of women, such education to be conducted in the buildings of McGill College, as a distinct course in the Faculty of Arts, with the understanding that as soon as practicable the classes were to be created into a separate college of McGill University, with a building separate from that of McGill College. Under the terms of the Donalda Endowment it was provided that degrees in the Faculty of Arts should be granted to women practically on the same conditions as to men, and that the examinations for such degrees, for classing, honours, prizes and medals should be identical with those for men.

As a result of this generous gift and in accordance with the conditions attached, courses of instruction, identical in subject and in standard with those of the Faculty of Arts, were established for women in 1884. These courses were given in the Arts Building, some of the work of the third and fourth years and of the Honour Courses being conducted in joint classes.

The first graduating class of eight women was presented for the degree of Bachelor of Arts in 1888.

The ultimate object of Lord Strathcona had been the provision of a residential college, and this was realized when the Royal Victoria College was opened in 1899, and formally inaugurated by their Majesties the King and Queen (then Duke and Duchess of York) in 1901.

The College building, surrounded by garden and tennis courts, was erected at a cost of about $400,000 at the head of Union Avenue, upon land adjacent to the University Campus. Its beautiful and dignified exterior was designed in consistency with a careful and generous internal provision of a comfortable and gracious place of study and dwelling for students and for staff. A Warden and Resident Staff were appointed. With these new and great advantages the instruction provided by the original endowment has been maintained as hitherto, except that the separate classes are held mainly in the College building. Women have continued to prepare for degrees in Arts, including pure science. Through the wisdom of Lord Strathcona, provision was also made for the study of music. Since, however, the establishment of music as a separate department of the University in the Conservatorium of Music, independent instruction in music in the College has ceased, but it still maintains a resident lecturer in this subject, who is also Vice-Director of the Conservatorium. The interest of College students in music is thereby served and provided for. Women students resident in the Royal Victoria College may take degree courses in music at the Conservatorium.

THE COLLEGE BUILDING.

The building provides an academic, administrative and recreational centre for resident and non-resident students. It is situated on Sherbrooke Street, in close proximity to the University buildings, and within easy reach of Mount Royal Park. The building is fireproof, and much thought and artistic care have been given to furnishing and decoration.

On the ground floor are the offices of the Administration, including the rooms of the Warden and Secretary, the faculty room, the students' common room, a spacious dining hall, and three lecture rooms. On the first floor are other lecture rooms, the library, reading room, and a handsome assembly hall, which is used for convocation, Conservatorium concerts, and other University purposes. This hall is sometimes lent for purposes that are in harmony with the objects of the College. The gallery, which is reserved exclusively for the use of College students on such occasions, affords the latter many opportunities of educational value. The second and third floors and a small part of the first floor are occupied by the rooms of the Resident Staff and students. Each student has a separate study-bedroom. If accommodation permits, a student may be assigned two rooms, a study and a bedroom. The rooms are completely furnished, and no article of furniture need be brought by the students.

A large gymnasium is provided, fully-equipped with modern requirements. In connection with the gymnasium are bath-rooms and dressing-rooms.

Resident students of music have the use of pianos in two practising rooms and at certain hours in other parts of the building.

The lawn behind the College building provides lawn tennis courts in the summer and a skating rink in the winter. Subject to regulations, the students have the privilege of using the University grounds. Each student paying the Grounds Fee receives a ticket giving admission to the Campus skating rink during certain afternoon hours daily except Saturdays.

ADMISSION AND INSTRUCTION.

The College being a college of McGill University and its students being registered in the Faculty of Arts, they are required to comply with the regulations concerning discipline and instruction, made by the University and Faculty, and, in addition, with such regulations as may be made for the Royal Victoria College.

Undergraduates are required to pass the Matriculation Examination of the University, or an equivalent examination (see pages 45 to 63) and can proceed to the degrees of B.A. and B.Sc. They are required to wear academic dress. Partial students, in order to obtain admission, must pass the matriculation examination in the subject, or subjects, which they wish to take, or, failing this, must be able to satisfy the Head of the Department concerned that they are qualified to proceed with the course.

Students are required to enter on the roll book of the College their names, home addresses, and addresses in Montreal. All students entering the University for the first time are required, according to municipal regulations, to present a certificate or other satisfactory evidence of successful vaccination. No student who has an infectious illness or who comes from a house in which there has been an infectious illness within a month, shall enter or return to the College without giving notice and obtaining the consent of the Warden. The health of the resident students is in charge of a competent physician, practising in Montreal, who may be consulted, free of charge, by arrangement with the Warden. Every student applying for admission to residence is required to fill in an entrance form and to forward a medical certificate on a form provided by the College.

Instruction is given by professors and lecturers of the University and lecturers and tutors of the Royal Victoria College, who are also members of the various teaching departments of the Faculty of Arts. Graduate students can proceed to the degree of M.A., M.Sc. and Ph.D.

Lectures are given in the College or in the University buildings, practical instruction in science being given in the University laboratories. Students are assisted in their studies by the resident staff.

Students of the College have the use of the University Library containing 165,657 volumes. There is also a College Library comprising works of general literature and the chief stated books required for the University curricula, the Department of Modern Languages being especially well represented. The College Library and Reading Room are open to resident students from 9 a.m. to 11 p.m. and to non-resident students from 9 a.m. to 6 p.m. (on Saturdays from 9 a.m. to 1 p.m.).

The Peter Redpath Museum, containing large collections in mineralogy, palæontology, zoology, botany, archæology, and ethnology, is open to students of the College.

The Warden's business hours are 10 a.m. to 1 p.m.; at other times, by special appointment. She will be glad to meet all students before the opening of the session and to discuss their plan of work then or at any other time during the session.

Applications for admission or for further particulars should be addressed to the Warden, Royal Victoria College, Montreal.

EXHIBITIONS AND SCHOLARSHIPS.

For a statement of the exhibitions and scholarships open to women students of the University, see page 77.

In addition to these, and further to encourage residence within the College walls of students who might otherwise arrange to board in the city, the Warden and Staff are empowered to make nominations in any of the four college years to not more than three additional exhibitions of the value of $100.00 each.

TUITION FEES.

Students (graduate, undergraduate or partial, resident and non-resident) pay the same fees as are charged in the Faculty of Arts. For undergraduate students the fee is $100 (this includes fees for library, gymnasium and graduation). For further information, see page 95. Every student pays an Athletics or Grounds fee of $3.00, and undergraduate students, the Royal Victoria College Undergraduates Society fee of $2.50. All fees are payable to the Bursar, McGill University, on or before October 10th.

BOARD AND RESIDENCE.

Residence in the College is open to graduate students, undergraduates, conditioned undergraduates, and, in exceptional circumstances, to partial students. *Application for residence should be made early, as accommodation in the College is limited.* The charge for board and residence, in addition to the sessional fee for tuition, is $340 ($140 for room, $200 for board). This may be paid in two

equal instalments of $170 each, in October and January. An additional charge, varying from $50 to $100, is made for the use of a private sitting-room. Room rent includes all expenses of heat and light (not other electrical attachments, for which fees will be charged). These charges cover the University session from about September 28th to the day after Convocation.

Students of music or others who remain in College until a later date for purposes of instruction, school practice, or examination, are charged an additional fee of $1.50 a day. No additional fee is charged to students returning earlier than September 28th for scholarship, supplemental, or matriculation examinations. With the permission of the Warden, students may remain in residence during the Christmas vacation. They will be required to pay a fee of $1.50 per diem for board and residence.

The charges for tuition and room rent are not subject to remission or reduction under any circumstances. In case of prolonged illness and absence from College for a period of six weeks or more, a proportionate reduction, however, is made in the charge for board.

All fees are payable to the Bursar, McGill University, on or before October 10th. *Notice of withdrawal should be given at the close of the session, or not later than September 1st.*

PHYSICAL EDUCATION.

Physical Director:—A. S. Lamb, B.P.E., M.D.
University Medical Officer:—F. W. Harvey, B.A., M.D.
Physical Director for Women:—Miss Ethel M. Cartwright, Chelsea College of Physical Education.
Assistant:—Miss Georgina M. Wood, Chelsea College of Physical Education.

Every student on entering the College is required to pass a physical examination.

The physical education offered to undergraduate students includes educational, remedial and recreative gymnastics.

The educational gymnastics are based on anatomical and physiological laws; the exercises aim at producing the highest degree of health in each individual, and thus contribute to mental as well as to physical efficiency. The course of exercise, which is progressive throughout each session, encourages the harmonious development of the nervous and muscular system, and provides a remedy for incorrect habits of sitting, standing and walking. Special attention is given to the development of the chest, since a good lung capacity is the foundation of a really healthy constitution. A remedial gymnastic course is

prescribed for undergraduate students who are physically unfit for ordinary class work.

Work in the Physical Education Department, amounting to 140 hours during the four years' course, is required of all undergraduate students. The periods are used for instruction in personal hygiene and for educational, remedial and recreative gymnastics, according to the physical requirements of the individual. Attention is given in the senior years to the subject of health problems. No student is asked to do work unsuited to her physique and students debarred from exercise of any kind are dealt with separately and carefully advised. Reports of attendance in physical education are regularly sent to the Faculty.*

The Physical Director for Women arranges all regulations regarding necessary attendance and the substituting of recreative for educational gymnastics.

Recreative gymnastics, in the form of basketball, tennis, ice-hockey, fancy skating and athletic sports, are organized by the Athletic Association, under the supervision of the Department of Physical Education. All students are examined by the Medical Officer and the Physical Director for Women, and are required to pass satisfactory physical tests before taking part in any of these activities.

Students of Music in residence are also required to attend educational gymnastic classes. Educational and recreative gymnastics are open to all partial students on payment of a fee of $5.00 for a class of two periods a week.

Strathcona Prizes are offered in this Department under the conditions mentioned on page 294.

A course of instruction, theoretical and practical, is offered to undergraduates of the fourth year, who are preparing for the Academy Diploma, attendance being required by the Department of Education as follows (see page 158):—

A course of 20 lessons of 1½ hours each on the principles and practice of physical education. The course will cover elementary anatomy, physiology and hygiene, the theory of gymnastics and class teaching.

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* In all cases of absence the student is required to report to the Physical Director for Women. The ordinary interpretation of the one-eighth rule concerning absences does not apply in this Department. Every student is required to wear the costume recommended by the Department.

Students who satisfactorily complete this course are entitled to certificate "B" of the Strathcona Trust, and their work is included in the requirements for the First Class Academy Diploma of the Province of Quebec.

MUSIC.

Students taking courses in music leading to the degree or diploma are eligible for residence in the College.

Instruction in music is offered at the McGill Conservatorium of Music—Director, Dr. H. C. Perrin; Vice-Director, Miss Clara Lichtenstein, Resident Lecturer in the Royal Victoria College. Students may prepare for the degree examinations in music of the University, or for the Diploma of Licentiate in Music.

For information regarding courses in music, see page 287, and also the separate syllabus issued by the Conservatorium of Music.

COLLEGE SOCIETIES.

The students maintain the following societies:—The Undergraduates' Society, the Athletic Society, the Delta Sigma Literary and Debating Society, La Société Française, the Young Women's Christian Society.

MACDONALD COLLEGE.

FOUNDATION AND PURPOSE.

Macdonald College, which is incorporated with McGill University, was founded, erected, equipped and endowed by the late Sir William C. Macdonald for the following among other purposes:—

(1) The advancement of education; the carrying on of research work and investigation and the dissemination of knowledge; all with particular regard to the interests and needs of the population in rural districts.

(2) To provide suitable and effective training for teachers, and especially for those whose work will directly affect education in schools in rural districts.

SITUATION AND EXTENT.

The College occupies a beautiful site, overlooking the Ottawa River at Ste. Anne de Bellevue, P.Q., twenty miles west of Montreal. The main lines of the Grand Trunk and the Canadian Pacific railways pass through the property, and the stations of both railways are within its boundaries.

The College property comprises 786 acres, and has been arranged into four main areas, viz.: (1) the campus, with lawn, school garden, and recreation fields for men and women; (2) experimental grounds, with plots for illustration and research in grains, grasses, and other farm crops; (3) the horticultural and poultry departments; and (4) the stock farm.

THE GENERAL ORGANIZATION.

The College is divided into three schools.

(1) **The School of Agriculture,** which aims to provide a theoretical and practical training in the several branches of agriculture.

(2) **The School for Teachers,** which offers a comprehensive and thoroughly practical training in the art and science of teaching.

(3) **The School of Household Science,** in which young women receive training which will make for the improvement and greater enjoyment of home life and instructs them in professional work in household and institute superintendence and management.

ENTRANCE REQUIREMENTS.

School of Agriculture.

All candidates for admission:—

1. Must have passed their seventeenth birthday;

2. Must produce satisfactory evidence as to moral character, also medical certificate of physical health, *including successful vaccination within the six years preceding date of entrance*; and

3. Must produce evidence of having worked for a season (including seed time and harvest) on a farm, affording a practical knowledge of ordinary farm operations. This knowledge will be tested by a practical examination at entrance or at a subsequent date.

All candidates for the winter course will be required to read and write the English language acceptably and to be proficient in the use of elementary mathematics.

All candidates for admission to the four-year course leading to a degree, beginning with the session of 1920-21, or subsequently, are required:—

I. To produce certificates as follows:—

(a) A school leaving certificate of the Province of Quebec.

(b) Of having passed the junior matriculation examination for entrance to the Faculty of Agriculture, which is held in June and September at McGill University and at the local centres provided. All inquiries relating to such examination should be addressed to the Registrar, McGill University, Montreal, P.Q. Subjects of examination:—(1) English (two papers), (2) History (one paper), (3) Latin or French or German (two papers), French preferred, (4) Elementary mathematics [algebra (one paper), and geometry (one paper)], (5) Any one of the following:—Botany, chemistry, physics, zoology (one paper).

For requirements in each subject of such examination please refer to the McGill University Annual Calendar.

(c) A matriculation certificate for entrance to any other faculty of the university will also be accepted.

(d) A model school diploma of the Province of Quebec.

(e) Other certificates of having passed examinations the same or equivalent to those required for the matriculation examinations of McGill University. For a list of such certificates see entrance requirements, the Calendar, McGill University.

II. To pass, at Macdonald College, at the time provided at the opening of the session, the junior matriculation examination set forth at paragraph 1. (b). This examination, at Macdonald College, is

intended only for those who are without the opportunity of qualifying by any of the methods indicated above. Arrangements for this examination at Macdonald College should be made with the Principal, Macdonald College, P.Q.

Candidates for admission to the Faculty of Agriculture who have failed to complete the matriculation requirements will be allowed to enter the first year as conditioned undergraduates, provided (a) that they have not failed in more than two papers (which cannot both be in the mathematical section, nor in two languages), and (b) that they have obtained at least 25 per cent. in the subjects in which they have failed and 50 per cent. of the aggregate. This regulation applies also to candidates who seek to satisfy the matriculation requirements by means of certificates granted by other recognized examining bodies. This condition must be removed before the student can be admitted to the second year.

School for Teachers.

Teachers to be trained for the schools under the control of the Protestant Committee of the Council of Public Instruction for the Province of Quebec will be admitted under conditions prescribed by that body, particulars concerning which are given in detail in the Announcement of Macdonald College.

School of Household Science.

All candidates for admission:—

1. (a) To the homemaker course, must have entered their eighteenth year and completed grade X. of the Province of Quebec, or its equivalent.

   (b) To the institution administration course, must have entered their twenty-third year, completed grade XI. (school leaving) of the Province of Quebec, or its equivalent, and have had some previous experience in housekeeping (e.g. assisting with the housekeeping in their own homes).

   (c) To the short courses, must have entered their eighteenth year, be able to read and write the English language acceptably and be proficient in the use of elementary mathematics.

2. Must produce satisfactory evidence as to moral character; also medical certificate of health, including successful vaccination within the six years preceding date of entrance.

LIVING EXPENSES.

The charges for board and lodging are as follows:—

For each occupant of a double room with single beds, per week $7.00

The above charges must be paid strictly in advance, and may be for the whole term, or for four weeks at a time.

Caution Money.—Every student must also, at the time of entrance, make a cash deposit of $5.00 with the Bursar of the College, to cover fines, breakages, etc.; and as soon as any student's deposit is exhausted he or she will be required forthwith to make an additional deposit of the same amount.

FEES.

In the School for Teachers, tuition is free to residents of Quebec.

In the School of Agriculture, tuition is free to sons, daughters, etc., of farmers of the Province of Quebec in the first two years. For other residents of Canada the fee is $50.00, and for students outside of Canada $100.00.

In the School of Household Science, tuition is free for daughters, etc., of farmers of the Province of Quebec in the one and two-year courses; for other residents of Canada the fee is $100.00 and for students outside of Canada $125.00 per session.

PAYMENTS AT ENTRANCE

	Tuition per Session	Laboratory Fee	Caution Money Deposit	4 Weeks' Board in Adv'ce (a)	Doctor's Fee	Laundry Fee	Student Activities	Total
SCHOOL OF AGRICULTURE:—								
First and Second Years:								
Sons, daughters, etc., of farmers of the Province of Quebec	Free	$10.00	$5.00	$28.00	$3.00	....	$8.00 (b)	$54.00
Other residents of Canada	$50.00	10.00	5.00	28.00	3.00	....	8.00 (b)	104.00
Students from outside of Canada	100.00	10.00	5.00	28.00	3.00	....	8.00 (b)	154.00
Third and Fourth Years:								
Sons, daughters, etc., of farmers of the Province of Quebec	50.00	15.00	5.00	28.00	3.00	....	8.00 (b)	109.00
Other residents of Canada	50.00	15.00	5.00	28.00	3.00	....	8.00 (b)	109.00
Students from outside of Canada	100.00	15.00	5.00	28.00	3.00	....	8.00 (b)	159.00
SCHOOL FOR TEACHERS:—								
Model School and Kindergarten Classes	Free	5.00	5.00	28.00	3.00	$1.00	4.25 (c)	46.25
Elementary Classes	Free	2.50	5.00	28.00	2.00	1.00	(d)	(f)38.50
SCHOOL OF HOUSEHOLD SCIENCE:—								
Homemaker and Institution Administration Courses:								
Daughters, etc., of farmers of the Province of Quebec	Free	10.00	5.00	28.00	3.00	1.00	4.25	51.25
Other residents of Canada	100.00	10.00	5.00	28.00	3.00	1.00	4.25	151.25
Students from outside of Canada	125.00	10.00	5.00	28.00	3.00	1.00	4.25	176.25
Short Courses (per course):								
Daughters, etc., of farmers of the Province of Quebec	Free	5.00	5.00	28.00	2.00	1.00	(e)	(f)41.00
Other residents of Canada	35.00	5.00	5.00	28.00	2.00	1.00	(e)	(f)76.00
Students from outside of Canada	50.00	5.00	5.00	28.00	2.00	1.00	(e)	(f)91.00

(a) Occupants of single rooms are charged $1.00 extra per week. Students in Agriculture from the Province of Quebec receive a grant from the Provincial Government of $7.00 per month of attendance on account of board. See page 320
(b) Women students in the School of Agriculture pay the same for student activities as those in the School for Teachers (model class).
(c) Men students of the School for Teachers (model class) pay the same for student activities as men students of the School of Agriculture.
(d) Students of the elementary class pay for student activities—first term, men, $3.27; women, $1.50; second term, men, $4.00; women, $2.25.
(e) Short course students pay for student activities—autumn and spring courses, 75c; winter course, $1.50.
(f) Student activities to be added to this total.

THE B.S.A. DEGREE.

Students who shall have completed the regular course of study in Agriculture, as laid down in the Announcement of the College, shall have passed the prescribed examinations for graduation, and shall have performed such exercises as may be prescribed to that end—the whole to the satisfaction of the Faculty of Agriculture—shall be entitled to the degree of Bachelor of Science in Agriculture, and the degree, when abbreviated, shall be designated by the letters B.S.A.

DEGREE IN HOUSEHOLD SCIENCE.

Students who shall have completed the regular course of study of the first two years in the Faculty of Arts, and shall have passed the prescribed examinations during the course, and thereafter shall have completed a special course of study for two years at Macdonald College, shall have passed the prescribed examinations during the said course and also the special examinations for graduation; and shall have performed such exercises as may be appointed to that end, the whole to the satisfaction of the Teaching Staff of Macdonald College, and also of any other examiners whom the Corporation may associate with the said staff, shall be entitled to the Degree of Bachelor of Household Science.

PROVINCIAL GOVERNMENT GRANTS TO STUDENTS FROM THE PROVINCE OF QUEBEC.

(1) *School of Agriculture.*

The Department of Agriculture of the Province of Quebec grants to each student who belongs to the Province of Quebec $7.00 per month of attendance employed in studying according to the time tables in the School of Agriculture, Macdonald College. This amount will be placed to the credit of such students by the College Bursar and will be applied on account of board and lodging.

(2) *School of Household Science.*

The Provincial Government grants bursaries of $20.00 to $50.00 each to Quebec students from the farming community in the junior and senior years of the School of Household Science.

COLLEGE ANNOUNCEMENT.

Full details as to the courses, etc., will be found in the Announcement of Macdonald College, which will be sent, on application to the Principal, Macdonald College, Que.

THE UNIVERSITY BUILDINGS.

The Centre Building.—This is the oldest building of the group. It contains the lecture rooms of the Faculty of Arts, as well as the botanical and zoological laboratories and the offices of the administration.

The Conservatorium of Music is situated at the corner of University and Sherbrooke Streets, adjoining the University grounds. On the ground floor are the offices of the Director and of the Secretary, the library and a concert hall where recitals by the staff and students are given during the session and where orchestral and choral practices are held (the more important concerts take place in the large assembly hall of the Royal Victoria College). The second and third floors contain a number of studios, where lessons are given by the various members of the staff, as well as a room for lectures in theory and history of music, sight-singing, etc. In the basement are several practice rooms.

The New Medical Building.—This building, erected at a cost of over $600,000, stands at the corner of Pine Avenue and University Street. Of the central part of the building, the greater portion is set aside for the accommodation of the library, the whole of the front of the second and third floors and a portion of the ground floor being so used. On the third floor is a large students' reading room, 76 x 24 feet, exceptionally well lighted and capable of accommodating 100 readers. On this floor also is the staff journal room and the private offices of the librarian. The second floor is occupied by the stack room, with accommodation for sixty thousand volumes, also by individual research and reading rooms. A portion of the ground floor is set aside for storage. Besides the library, the central portion of the building contains also three lecture rooms, the private museum and offices of the professor of anatomy and the administration office, research and preparation rooms of the museum staffs. To the rear of the central building is the museum, probably the most complete structure of its kind in connection with a medical school on this continent. It is built in the form of a cross, three storeys high, splendidly lighted by ample window space on three sides and by a large central light well. Each floor is furnished with free stacks and wall cases made of steel and plate glass thoroughly dust-proof. The anatomical collections are placed on the third floor, while the first and second floors are devoted to pathology. In both the anatomical and pathological sections of the museum the specimens have been prepared and classified with a view to their being made use of

in the teaching of these important subjects. The east wing gives accommodation for the Departments of Anatomy, Pathology and Bacteriology, the Faculty of Dentistry, the Faculty rooms and administration offices, the mortuary and preparation room for dissecting material, as well as ample space for students' lockers and lavatories, and a large well-lighted students' reading and smoking room. On the ground floor of this wing will be found the mortuary, in which there is provision for the storage of 80 subjects, and leading from this is the preparation room. On this floor also is the large locker room, containing 400 steel lockers, the students' lavatory and the students' reading and smoking room, the latter being provided with newspapers and magazines and being under the control of the students themselves. On the first floor is the Faculty room and a series of rooms for administrative work. The northern half of this floor is occupied by the Faculty of Dentistry, comprising offices, lecture rooms, and modern, well-equipped laboratories. The second floor is wholly occupied by the Department of Pathology and Bacteriology. In the southern half is the Professor's private laboratory and office, four research and preparation rooms, a small demonstration theatre and an assistant's room. The northern half is occupied by the students' laboratory, a room 76 x 40 feet, splendidly lighted and equipped with all the necessary apparatus for modern laboratory instruction. The third floor is taken up wholly by the Department of Anatomy, and contains, besides private offices and research rooms for the Professor and staff, a large dissecting room, 88 x 40 feet, excellently lighted and fully equipped. There is also on this floor a large lavatory and students' locker room. Between the second and third floor is a mezzanine floor, which is devoted to the Department of Parasitology. Here, besides the private offices and research rooms of the Professor, there are four fully-equipped laboratories for advanced work. The west wing contains a large assembly hall. The remaining space is occupied by the Departments of Pharmacology and Hygiene.

The Old Medical Building.—The Laboratory or North Wing of the Old Medical Building contains the laboratories for medical chemistry and physiology. The ground floor is set apart for medical chemistry. On the eastern side of the hall is the students' laboratory, 45 by 80 feet, which is well equipped for 100 students. A research laboratory, with eight working places and adjoining professor's room, private balance room, etc., connect with the large laboratory. On the western side of the hall is the lecture room connected with two preparation rooms and store-rooms and a small biochemical museum. The students' balance room and a dark room for polariscopic and photographic work are opposite the main entrance to the chemical laboratory. Laboratory courses in general chemistry of the first year,

organic and biological of the second year, and the physiological and clinical chemistry of the third year are given in the large laboratory. All classes are taken in sections. The mezzanine floor contains the lecture room for physiology and a series of laboratories for advanced work in practical physiology. The top floor is devoted entirely to physiology, there being two large laboratories and several smaller research and preparation rooms.

The Macdonald Engineering Building.—This building is designed to provide accommodation for six hundred students. The Departments of Civil Engineering and Architecture are permanently provided for, while the Department of Electrical and Mechanical Engineering are given temporary accommodation until such time as independent buildings can be provided for the growing numbers in these departments. The ground floor is given up to the civil engineering, geodetic, electrical and mechanical engineering laboratories, and is for the most part 23 feet in height. Mechanical and electrical engineering laboratories and the workshops also occupy the three lower floors of the Workman Building. The centre portion of the second floor is used for purposes of administration (faculty rooms, offices, library, etc.). The front parts of the second and third floors are occupied by eight class rooms which contain 470 sittings, while the upper floors, both of the Engineering Building and the Workman Building, are devoted to drafting rooms, containing over 500 tables. The building throughout is of the most approved fire-proof construction, not only in the matter of materials, but in arrangement as well, the several floors being divided by fire walls and fire doors into separate sections. It was erected at a cost of about half a million dollars.

The Macdonald Chemistry and Mining Building.—In addition to the large lecture theatre, which seats about 250 students, there are here four lecture rooms for smaller classes and a number of offices. There are also three large general chemical laboratories (each with a floor space of about 2,400 square feet and accommodation for 200 students at a time), large laboratories for assaying, ore dressing and metallurgy, with a very complete equipment, and a number of smaller rooms and laboratories for special purposes, including research work. The reference library contains about 1,400 volumes.

The Macdonald Physics Building.—This building is five storeys in height, each floor having an area of 8,000 square feet. Besides a lecture theatre and its apparatus rooms, the building includes an elementary laboratory nearly 60 feet square, large special laboratories, a range of rooms for optical work and photography, separate rooms for private work, and two large laboratories arranged for research, provided with solid piers and the usual standard instruments. There

are also a lecture room for mathematical physics, a special physical library and convenient workshops. The equipment of the Physics Building is exceedingly valuable and complete.

The Redpath Museum.—The Museum occupies a commanding position at the upper end of the campus, and besides its central hall and other rooms devoted to the collection, it contains a large lecture theatre, class rooms and work rooms. The collections in botany, palæontology, geology and zoology are very fully and admirably arranged for teaching purposes.

The University Library.—This building is a fine example of the Romanesque style of architecture. The general reading room is 110 feet long, 44 wide and 34 high, and will seat 150 readers. The book stack, four and five storeys in height, has a working capacity of 250,000 volumes.

The Observatory is well equipped for instruction in the use of meteorological instruments and in astronomical work.

The Power Station.—The new Power Station supplies heat to the following buildings: New Medical Building, Old Medical Building, Engineering and Workman Buildings, Chemistry and Mining Buildings, the Physics Building and the Arts Building. It also furnishes current for light and power to these buildings and to the Royal Victoria College, the Union and Strathcona Hall. The equipment of the station includes boilers of 1,000 H.P. nominal capacity, provision being made for future extension, and engines and generators of 600 kilowatt capacity. The coal bunkers hold 500 tons. The heating distribution is partly by tunnel and partly by underground conduit, the farthest building served being at a distance of 700 feet from the station. Electric cables are placed underground in vitrified clay conduits.

The Royal Victoria College.—This is a residential college for the women students of McGill University. It is situated on Sherbrooke Street, in close proximity to the University buildings and laboratories. On the ground floor are the offices of the administration, lecture rooms, students' common room, and a spacious dining hall. A gymnasium is fitted up in the basement. On the first floor are other lecture rooms, the library, reading room and a handsome assembly hall. The second and third floors are given up entirely to rooms for resident students. These rooms are handsomely furnished, as indeed is the whole building.

The McGill Union stands at the corner of Sherbrooke and Victoria Streets, within two minutes' walk of the College gates. The building measures 93 feet by 71 feet and consists of three storeys and a basement. On the main floor are the dining and luncheon rooms; on the second floor, billiard rooms, a news hall, a reading room and a

library, a study and a lounging gallery (88 ft. by 21 ft.). The large hall is situated in the top storey. It measures 88 ft. by 45 ft. and has a seating capacity of 400. There are also smaller rooms for society meetings, etc. In the basement are baths, locker rooms and an exercise room (24 ft. by 38 ft.). The Union is the social centre of the University, the common meeting ground for students of all faculties. It is intended to promote a broad and true university spirit.

Strathcona Hall is the home of the Young Men's Christian Association of the University. The building is 55 feet by 110 feet, and is five storeys in height. The three upper storeys are arranged to afford residential accommodation for about sixty students. On the ground floor are the secretary's office, sitting rooms, cloak rooms and a hall capable of seating 350 persons. The second floor contains a large reading room, a large game room, and five small rooms for the use of clubs and societies.

LABORATORIES, MUSEUMS AND WORKSHOPS.

1. LABORATORIES.

CEMENT LABORATORIES.

The laboratory is equipped for making complete tests on the strength and properties of cements, mortars, concrete, concrete beams, etc., and includes the following:—Tensile testing machines, hydraulic compression machine (50 ton), specific gravity apparatus, sieves for fineness tests, steaming apparatus, Vicat's and Gilmore's needles, metal moulds, mixers, rammers, balances, etc. Tanks are provided for the storage of briquettes and other test specimens, and the equipment is supplemented by that of the Strength of Materials Laboratory in making tests on large sized specimens.

All engineering students make the standard test on cements and mortars and also tests of concrete, plain and reinforced, as part of the instruction in strength of materials.

CHEMICAL LABORATORIES.

(In the Chemistry and Mining Building.)

The three principal laboratories have each a floor-space of about 2,400 square feet and together have accommodation for nearly two hundred students working at a time. They are lighted on three sides, have special ventilation, and have ample hood space. Laboratory A is planned for beginners, and the other two for more advanced work; B for quantitative analysis and C for organic preparations and qualitative analysis. In connection with each of the main laboratories is a balance-room equipped with balances by several of the best makers and an instruction room.

Physical chemistry is provided for in a special laboratory, nearly 30 by 40 feet, supplied with electricity, steam, vacuum pumps, etc. The equipment of this laboratory consists of the apparatus necessary for the determination of the specific gravities of solutions, of the depression of freezing point, of the rise of boiling point, and of densities of gases and vapours. There are constant-temperature baths for accurate measurement of solubilities, Kohlrausch's apparatus for determining the electrical conductivity of solutions, and the apparatus necessary for measuring the electromotive forces generated between metals and their solutions, and in voltaic cells generally. There are also calorimeters for measuring the heat effects produced in chemical reactions. On the same floor there is an optical room, devoted more

particularly to crystallographic work and furnished with goniometers, polarising microscopes, axial-angle apparatus, refractometers, etc.

Immediately adjoining the laboratory of physical chemistry is the photographic department, supplied with two dark rooms, arranged on the maze system, and provided with the necessary appliances for all ordinary photographic work, including an enlarging camera and apparatus for micro-photography.

The laboratory for gas analysis is fitted with a large tank to contain water at the temperature of the room, for use in obtaining a constant temperature in the measurement of gases. The tables are arranged for work with mercury, and the laboratory is supplied with the apparatus of Hempel, Dittmar, Orsat, Elliott and others. It contains also Fleuss, Boltwood, and Töpler pumps for producing high vacua.

The laboratory for electrolytic analysis is supplied with accumulators, thermopiles, platinum electrodes, rheostats, ammeters, voltmeters, etc.

Another room has lately been equipped with electric furnaces and other appliances for electro-chemical work.

The organic department comprises a laboratory for preparations and research, a combustion room for analysis, a dark room for polariscope and saccharimeter work, and a lecture room. The laboratory is fitted with all the necessary apparatus for organic research—special hoods for work with poisonous gases, regulating ovens for digesting and drying at various temperatures, filter presses for the extraction of raw materials, and various forms of apparatus for distillation in vacuo. The dark room is equipped with polariscopes and saccharimeters for sugar work. There is a large supply of the necessary organic chemicals, which are supplied free of charge to students engaged in routine or research work in this department.

The laboratory for industrial chemistry is especially ventilated and fireproofed. Here operations on a semi-commercial scale may be conducted, involving the use of explosive and other dangerous chemicals.

The Chemistry Building is well supplied with small research laboratories for graduate and other research students.

ELECTRICAL LABORATORIES.

The experimental equipment of the electrical department is contained in the fourth year, third year, standardizing, high voltage, oscillograph and photometer laboratories. Power is supplied to these laboratories from the 220-volt, 3-wire, D.C. generators in the central power house. The voltage is maintained approximately constant on the two sides of the system by a balancer set located in the fourth

year laboratory, which is also equipped for supplying constant voltage circuits of 125 volts.

The Main Laboratory is equipped primarily for the study of alternating current phenomena and is equipped with: Motor-driven alternators of various types, giving a range of frequency of from 25 to 250 cycles per sec.; single and polyphase induction motors of the squirrel cage and wound rotor types; single phase series and repulsion motors; constant voltage and constant current transformers; mercury arc rectifier; rotary converters; potential regulators; meters for the measurement of current, voltage, power, frequency, power factor, and wave form; rheostats, circuit breakers, condensers, reactance coils, synchroscopes and other auxiliary apparatus. An electric travelling crane spans the laboratory and gives facilities for the rearrangement of the machines.

The Main Laboratory is also used by the third year electrical students for the study of current flow in circuits and of direct current machinery.

The Electrical Laboratory on the third floor of the Workman Building is used by the students of other departments who are taking an elementary electrical course, for the study of both direct and alternating current phenomena. The laboratory is equipped with: Shunt, compound and series wound direct current generators and motors of different types; constant current generators; arc and incandescent lamps; meters for the measurement of current, voltage and power; rheostats, circuit breakers, starters and other auxiliary apparatus. Several small alternators, transformers, rotary converters and induction motors along with the necessary instruments and control apparatus are provided for use by the students taking the general elementary course. A hand-operated travelling crane gives facility for the rearrangement of the machines.

The Standardizing Laboratory is equipped for the accurate measurement of direct currents to 1,000 amperes and voltages to 1,500 and of alternating currents to 200 amperes and voltages to 1,500. By the use of standard instrument transformers, alternating currents to 5,000 amperes and voltages to any reasonable value may be accurately measured. The equipment includes: Kelvin current and watt balancers; Weston laboratory standard ammeters, voltmeters and wattmeters; potentiometers; Wheatstone and conductivity bridges; galvanometers, standard resistances and cells and other special apparatus.

The power is obtained from two motor generator sets, from one of which direct current to 1,000 amperes may be obtained, and from the other alternating current may be obtained over a considerable range of frequency up to 1,500 amperes and at any phase relation to voltages up to 440.

The High Voltage Laboratory contains the following equipment: Four 200 to 50,000 volt transformers supplied with condenser bushings and insulated so as to operate up to 300,000 volts; one 200 to 2,000 volt insulating transformer; one 110 to 20,000 volt testing transformer; standard spark gaps for oil and air; cathode ray tubes, electrostatic voltmeters and other auxiliary equipment. The transformers are provided with auxiliary voltage coils for direct pressure measurement and for connection to the oscillograph. The connections to this laboratory are such that any machine in the department may be used as a source of power and controlled directly from the transformer room, so that a wide range of frequency and of wave form is available for experimental work.

The Photometer Laboratory contains a Reichaustahlt type precision photometer bar with a wide range of certified standard incandescent lamps, hand operated and power driven universal rotators, motor driven sector disk and a complete set of screens, also a Matthew's integrating photometer for incandescent lamps. A Sharp Millar portable photometer and standardizing set is also installed, with a full range of controlling rheostats and instruments provided with permanent wiring.

Oscillograph Laboratory.—This is equipped with a Blondel triple oscillograph, with both visual and photographic attachments, and is specially adapted for the study of transient phenomena. The department maintains a small machine shop for instrument and machine repair and for the construction of special experimental apparatus.

Wireless Telegraph Laboratory.—A permanent aerial, 350 feet in length, of the inverted "L" type, has been installed, with a natural wave length of 600 metres. Waves varying in length from 500 to 8,000 metres can be detected. A number of receiving sets have been loaned to the department and others are being constructed.

FOREST PRODUCTS LABORATORIES OF CANADA.

The Forest Products Laboratories of Canada, established by the Canadian Government in 1913, under the Forestry Branch, Department of the Interior, are associated with McGill University, and are located at 700 University Street, Montreal. The primary function of the laboratories is experimental research in the utilization of forest products, as a means toward the improvement of present industrial methods and the extension of commercial opportunities in this field.

There are four operating divisions, for technical research in timber tests, timber physics, pulp and paper and wood preservation. Provision is made for the establishment of other research divisions, as opportunity develops.

The Division of Timber Tests is engaged in the investigation of the mechanical properties of Canadian woods, primarily for the collection of data on the relative strength values of various species, as a basis for classification of timber as structural material and for miscellaneous commercial uses. The testing work of this division is carried out in the Strength of Materials Laboratories of McGill University. By arrangement with the University, provision has been made for the joint use of the Wicksteed, Emery and Riehle testing machines included in the equipment of this University department. The Forest Products Laboratories have installed one 30,000-pound capacity Olsen Universal machine, fitted with attachments of special design to meet the requirements of various testing methods, and one Hatt-Turner impact machine. Accessory apparatus includes deflectometers, compressometers, planimeter and calculating machines for reduction of test result. A saw mill and wood working shop are maintained in connection with this division. Another timber testing laboratory has recently been established in co-operation with the University of British Columbia, Vancouver, B.C.

The work of the Division of Timber Physics includes the investigation of the physical properties of wood,—specific gravity, moisture content, rate of growth, etc.—for correlation with mechanical and other characteristics, the microscopic anatomy of wood and study of fibres, and photography. Drying racks, electric ovens and balances are in use for this work, while apparatus for microscopic study includes one Jung-Thoma microtome (Thomson modification), two microscopes, microscopic micrometers and accessory appliances for use in preparation of slides, fibre measurements and other microscopic determinations. The photographic department of the division is provided with a fully equipped dark-room and complete range of photographic apparatus, including special Bausch and Lomb horizontal photomicrographic outfit, cameras and projection lantern.

The Division of Pulp and Paper is engaged in the investigation of the paper-making possibilities of Canadian woods, the practical study of processes related to this field and research in fundamental problems of the chemistry of wood. A complete semi-commercial paper mill has been installed for investigation on a large experimental scale. This equipment includes one single Marx beater, one double Marx beater, one small Jordan engine for refining paper stock; one riffler, one Packer flat screen, and one complete Pusey and Jones paper machine (wire 25 feet by 33 inches). Other equipment includes one complete Erfurt sizing system for preparation of rosin size, two gas fired boilers, small digester and paper testing instruments. Larger digesters, corresponding in capacity to the larger experimental equipment, are planned for future installation. The chemical laboratory

of this department is provided with complete equipment for experimental research in the chemistry of wood.

The Division of Wood Preservation is concerned with the investigation of methods of preservative treatment for the protection of timber against decay and insect destruction. The experimental laboratory of this division is provided with equipment for impregnation of wood with preservatives under pressure. This equipment includes one horizontal retort, 2 feet in diameter and 12 feet long; operating tank of corresponding capacity; one small vertical retort and tank, all designed for high pressure; pumps, air compressor and dry vacuum pump, receivers and condenser. A chemical laboratory in this department is used for analysis of preservatives and examination of treated material. A small laboratory is equipped for experimental studies in wood pathology, which includes the development of cultures of wood destroying fungi, accelerated tests of durability and microscopic examinations.

GEODETIC LABORATORY.

The equipment of this laboratory consists of:—

(1) Linear instruments: a Rogers comparator and standard bar for investigating standards of length; a fifty-foot standard and comparator for standardizing steel bands, chains, tapes, rods, etc.; a Munro-Rogers linear dividing engine.

(2) Circular instruments: a Rogers circular comparator; four level triers.

(3) Time: an astronomical clock and clock circuit in connection with the observatory clocks; chronometers running on mean and sidereal time; chronograph.

(4) Gravity: a portable Bessel's reversible pendulum apparatus with special pendulum clock and telescopic apparatus for observing coincidence by beats.

(5) A water gauge apparatus for testing aneroid barometers.

The laboratory and clock rooms are constructed with double walls and enclosed air spaces, and their heating is controlled by special thermostats, so that the temperature within may be brought to, and held at, any desired degree.

Astronomical Observatory.

The observatory equipment for the purpose of instruction in practical astronomy consists of: A Bamberg prismatic transit with zenith attachment; six astronomical transits for meridian observations; two Troughton & Simms zenith telescopes; sidereal and mean time clocks and chronometers, chronograph and electrical circuits by which observations and clock comparisons within or without the observatory may be made.

HYDRAULIC LABORATORY.

In this laboratory the student studies experimentally the laws governing the flow of liquids through orifices, pipes, weirs, etc., and also carries out experiments on the efficiency of various forms of water motors running under different conditions as regards head and supply.

The equipment includes:—Apparatus for the measurement of the discharge of water from orifices, nozzles, weirs, etc., under varying conditions; arrangements for investigation of the loss of head by surface friction, and at curves and bends in pipes; Venturi meter for use at different discharges; a hydraulic ram working against different heads; various water motors, including Pelton wheels, Girard impulse turbine, Brotherhood three cylinder rotary engine, Thomson inward flow reaction turbine, American turbine; apparatus for measurement of pressure due to impact of jets on surfaces of different forms; gauge testing appliances; Hele Shaws's apparatus for study of the steam lines in a perfect fluid, illustrating the flow round obstructions in a channel, and numerous magnetic problems; numerous calibrated tanks, weighing appliances, and measuring apparatus in connection with the above.

MECHANICAL ENGINEERING LABORATORIES.

These laboratories are used in connection with the courses in Mechanical Engineering subjects. The smaller apparatus belonging to the laboratories includes the necessary equipment of weighing machines, ordinary and water dynamometers, steam calorimeters, thermometers, gauges, pyrometers, coal, gas and oil calorimeters, indicators, planimeters, flue gas analysis, etc.

1. Mechanical Laboratory.

The equipment of this laboratory includes:—A belt testing machine capable of taking a six-inch belt at 15 feet centres (the machine has special hydraulic dynamometers and a friction brake and will absorb 15 H.P.); a Thurston railway pattern oil tester, fitted with water cooling and heating apparatus for varying the temperature of the brasses as desired; standard viscosimeters and other necessary apparatus for the physical testing of lubricants; a high speed horizontal engine having a cylinder 6 inches diameter, 9 inches stroke, and operated by compressed air; a gas-fired preheater for the above engine; two standard 9½-inch Westinghouse airbrake pumps, fitted for testing and for supplying compressed air for experimental and other purposes; a non-rotative Blake steam pump, having steam and water cylinders 4½ and 2¾ inches diameter and 4½ inches stroke; apparatus for measuring the heat loss from pipe coverings and from radiators; a specially designed hydraulic support and fittings, for car-

rying out experiments on the action of cutting tools in the lathe; apparatus for experiments on the efficiency of pulleys and hoisting appliances; on the efficiency of worm and other gearing, for governor testing; for testing fans and blowers; for studying problems connected with the balancing of reciprocating engines.

2. Steam Engine Laboratory.

This laboratory is furnished with an experimental steam engine of 120 I.H.P., specially desiged for investigating the behaviour of steam under various conditions. The cylinders are 6½ inches, 9 inches, 13 inches and 18 inches in diameter, and the stroke of all the pistons is 15 inches. The cylinders can be so connected as to allow of working as a single, compound, triple, or quadruple expansion engine, either condensing or non-condensing, and with any desired rate of expansion. The jackets are so fitted as to permit of measuring independently the water condensed in the cover, barrel, or bottom jacket of each cylinder, and the engine can be worked with any desired initial pressure up to 200 lbs. per square inch. The measurements of heat are made by means of large tanks, which receive the cooling water and the condensed steam. There is an independent surface condenser and air pump. Two hydraulic absorption brakes and an alternative friction brake serve to measure the mechanical power developed. This laboratory also contains the following machinery:—A Robb automatic cut-off engine, having a cylinder 10½ inches in diameter by 12 inches stroke, which is specially fitted up for the measurement of cylinder temperatures, and can be run at speeds up to 300 revolutions per minute; an automatic high speed engine by Macintosh & Seymour, having a cylinder 12 inches in diameter by 12½ inches stroke, in connection with which there is an automatic recording apparatus for registering the load on the brake; a Leonard horizontal engine, having a cylinder 8 inches diameter by 9 inches stroke, specially fitted for instructional work in valve setting and provided with an independent surface condenser; a two stage air compressor (built in the workshops of the Department) taking 40 H.P., and having cylinders 10 inches and 17 inches in diameter, by 15 inches stroke (the compressor delivers its air into reservoirs placed beneath the floor of the machine shop, and is provided with an intercooler whose capacity can be varied as desired); a 15 K.W. Curtis steam turbo-generator with independent surface condenser, air pump, and a bank of lamps for varying the load; two 12 H.P. high speed forced lubrication compound engines (built in the workshops of the Department), one of which is used to drive a Hall 1-ton Co_2 ice machine.

Steam is supplied to this laboratory by the boilers in the Workman Building. These consist of one 100 H.P. locomotive boiler, Belpaire type, fitted with Howden oil burning furnace, two Babcock and Wilcox

water tube boilers, each 60 H.P., and one Yarrow water-tube boiler, fitted in a closed stokehold, for working under forced draft, rated at 100 H.P. These boilers are fitted with the necessary tanks, weighing machines and apparatus for carrying out evaporative tests. For the study of superheated steam, there is a B. & W. separately fired superheater.

3. Gas Engine Laboratory.

This laboratory contains a horizontal gas engine by the National Gas Engine Company, having a cylinder 12 inches diameter by 20 inches stroke and developing 40 B.H.P.; a suction type producer for the above, with the necessary scrubbers and gas cleaning apparatus; a down draft producer designed for working with lignite and bituminous coal; a standard 4-inch gas meter, gasometer, and exhauster; a 10 B.H.P. Otto type gas engine (built in the workshops of the Department), having a cylinder 8½ inches diameter by 12 inches stroke; a 14 B.H.P. 2-cylinder 2-cycle Grey gasoline engine and a 4 H.P. Blackstone oil engine.

METALLURGICAL AND ASSAYING LABORATORIES.

These consist of a large furnace room of 2,000 sq. feet, for metallurgical operations, a furnace room for assaying of 1,300 sq. feet, a balance room, small chemical laboratory, and parts of other rooms, which are utilized for pyrometric and photo-microscopic work. The furnace room is fitted with a water-jacket blast-furnace, 21 inches inside diameter, for smelting lead and copper ores; also a hand reverberatory furnace for roasting ores, having a hearth 14 ft. by 6 ft., and a Bruckner roasting furnace.

The furnace room adjoins the milling and ore-dressing room (see below), and ores which have been crushed and dressed can easily be conveyed into the furnace room for roasting, smelting or leaching treatments. In addition to this comparatively large scale plant, apparatus has been provided to enable the students to study in detail the more important metallurgical operations, using quantities of ore or metallurgical products of usually not more than a few pounds in weight. With such appliances, the work of the student can be of a more individual character than is generally possible with large-scale plants, and the reactions which occur can be more easily and exactly studied.

For the purpose of small-scale work there is a large crucible furnace which can be used with either natural or forced draught, an oil-fired crucible furnace, a large gas-furnace which can be used either as an oven-furnace or a muffle furnace, and a number of small muffle and crucible furnaces in the assaying laboratory. Several small dental furnaces have recently been added for the course of instruction in dental metallurgy.

Small blast-furnaces, lined with brick, have been constructed and used successfully for smelting small quantities of copper and cobalt ores. A Roots' blower has been provided for the blast furnaces, and connections for supplying forced draft have been made to the gas and reverberatory furnaces. Leaching operations on a small scale are conducted in stoppered bottles which can be agitated by machinery.

Provision has also been made for electric furnace work. The plant consists of a 50 H.P. motor and a 30 K.W. alternating current generator, together with transformers and measuring instruments. A Colby induction furnace and a Rennerfelt arc furnace have been installed for making steel electrically, and the smelting of ores and other electric furnace operations can be carried on satisfactorily with this plant. A low-voltage 1 H.P. direct-current generator is employed for electrolytic operations.

A powerful hydraulic press and a piece of apparatus for compressing gases by hydraulic power are available for experiments that have to be conducted under great pressure.

A small drop-testing machine, a Sankey metal bending tester, and a Brinell Hardness tester have been installed for investigating the mechanical properties of metals.

The assaying laboratory is equipped with a number of muffle and crucible furnaces fired with coke, a large gas muffle furnace and a small muffle furnace and crucible furnace fired by gasoline.

Adjoining the assaying laboratory is the balance room and a small laboratory for chemical work. In another room are a number of electrical and other pyrometers, and a micro-photographic outfit for recording the microscopic structure of metals and alloys. Polishing machines worked by power have been installed to prepare specimens for examination.

MINING AND ORE-DRESSING LABORATORIES.

The Department of Mining Engineering has one large laboratory for ore-dressing, and a number of rooms of moderate size equipped for use as special laboratories, offices, lecture room, dark room, machine shop, etc. The effective floor space is about 8,500 square feet, in addition to which the departmental store rooms, ore bins, etc., have an area of 1,500 feet.

The ore-dressing laboratory proper is built in two storeys about a central well and has about 5,000 feet total floor space. The equipment comprises two classes of apparatus. First, a large number of pieces especially designed for individual work on a small scale. Many of these are for elementary investigation and demonstrations of a theoretical nature, others are working reproductions on a reduced scale of typical ore dressing and milling machines. Second, a complete plant of standard apparatus for ore crushing, sampling, milling,

concentrating and for coal washing. This apparatus has been chosen from the best designs in common use and whenever possible each important class of ore-dressing machinery is represented by two or more different types, in order that comparisons may be made. Each machine is so arranged that it may be used and tested independently, but, when expedient, a number of machines can be connected by conveyors, and thus complete plants of various kinds can be improvised, each of sufficient capacity to test large lots of material under approximately working conditions.

The chief pieces of apparatus in the main laboratory are rock-breakers of four kinds, Blake, Dodge, Gates, and Sturtevant, for coarse crushing; gravity stamp mills of 600 and 950 lbs., respectively, a small steam stamp and a 3-foot Huntington centrifugal roller mill, for crushing and amalgamating; high speed steel-tyred rolls for fine crushing; Sturtevant and Gates grinders for preparing samples, and ball mills, pebble mills and amalgamation pans for extremely fine grinding. Following these there are Bell, Jones and Brunton samplers; a Callow belt screen; a series of trommels and power shaking screens for sizing the crushed ores; two especially designed jigs of two and four compartments with adjustable eccentric, cam and slide mechanism, a pneumatic jig, a Richards pulsator jig, a Taylor vibrating jig and several small hand and power jigs for coarse and medium concentration; slime tables of several types, including a Frue vanner, a Wilfley and Butchart riffled tables, with a series of Bell's feeders, etc., for separating valuable minerals contained in the fine sands and slimes; plates, pans and barrels for amalgamating gold and silver ores; agitators, vats, pressure and vacuum filters, and other apparatus for flotation, cyaniding and other extraction processes; spitzkasten, spitzlutte, magnetic separators, an electrostatic separator, coal washers, cones, and various other special pieces of ore-dressing apparatus.

An hydraulic lift and a number of belt and bucket and hydraulic jet elevators, feeders, samplers, steam-jacketed drying tables, etc., are provided for use in heavy continuous work. The power chiefly used is electricity, generated in the University power and light station and utilized through a number of independent electric motors aggregating 75 H.P. conveniently placed near the machines to be operated, but steam is used for some pieces of apparatus and others may be driven by a Pelton wheel. A motor-driven vacuum pump and air-compressor of 7½ H.P. provides an ample supply of compressed air. The department is equipped with suitable apparatus for electrical measurements, and is thus able to make continuous and accurate determination of the amount of power used by each machine.

In addition to the main laboratory, there are excellent facilities for advanced and research work—including a small but thoroughly equipped chemical and assay laboratory and photographic room. The

department possesses a number of cameras, microscopes, recording gauges and indicators, a good equipment of weighing and measuring devices, and a number of pieces of special apparatus for advanced theoretical investigation.

PETROGRAPHICAL LABORATORIES.

The petrographical laboratory, containing the chief rock collections of the University, is situated in the Chemistry and Mining building. It is provided with a number of petrographical microscopes by Seibert, Crouch, and Fuess, as well as with models, sets of thin sections, electromagnets, heavy solutions, etc., for petrographical work.

A collection of typical rocks has been especially prepared for the use of students, and a complete equipment for cutting, grinding, and polishing rocks has been installed, which runs by electric power and gives excellent facilities for the preparation of thin sections for microscopic use.

For advanced work and petrographical investigation, Dr. Adams' extensive private collection of rocks and thin sections is available for purposes of study and comparison.

THE PHYSICAL LABORATORIES.

The equipment of the Macdonald physical laboratories comprises: (1) apparatus for illustrating lectures; (2) simple forms of the principal instruments for use by students in practical work; (3) various types of all important instruments for exact measurements, to be used in connection with special work and research.

The magnetic laboratory contains magnetic instruments and variometers of different patterns, and also a duplicate of the B. A. Electrodynamometer. The laboratory on the opposite side of the basement contains a Lorenz apparatus for the absolute measurement of resistance, constructed under the supervision of Prof. Viriamu Jones.

There is a constant temperature room, surrounded by double walls, which is fitted for comparator work.

The first floor contains the main electrical laboratory, which is a room 60 feet by 40, and is fitted with a number of brick piers, which come up through the floor, and rest on independent foundations, in addition to the usual slate shelves around the walls. This room contains a large number of electrometers, galvanometers, potentiometers, and other testing instruments of various patterns, and adapted for different uses. Three small research laboratories adjoin the electrical laboratory. A well equipped workshop serves for the construction of research apparatus and repair work.

On the second floor of the building there is the heat laboratory, devoted to advanced work in thermometry, pyrometry and calorimetry and also to such electrical work as involves the use of thermostats and the measurement of the effects of temperature. This adjoins a private laboratory fitted for research work.

The third floor contains two small lecture rooms, a library and reading room for the staff and professors' rooms.

The fourth floor contains the large elementary laboratory, a room 60 feet square, devoted to elementary practical work in heat, sound, light, electricity and magnetism. There is a demonstrators' room adjoining, and an optical annex devoted to experiments with lenses, galvanometers, etc., which require a darkened room. On the other side of the building there is a spectroscopic room, containing a six-inch Rowland grating, with mountings by Brashear, and other large spectrometers and polarimeters; also a series of smaller optical rooms, including a photometric room, especially fitted for arc photometry, and a dark room for photographic work.

LABORATORY OF PHYSIOLOGY.

The physiological laboratory occupies part of the old Medical Building. It consists of a large general laboratory, with accommodation for 80 students working at one time.

THE PSYCHOLOGICAL LABORATORY.

The psychological laboratory occupies two rooms in the Arts Building. It contains apparatus for the study and investigation of sensation, perception, ideas, memory, association, attention, volition, feelings, emotions and reaction. This equipment serves three purposes: First, it is adapted to research work in the various fields of experimental psychology, including physiological psychology, educational psychology, and applied psychology. Second, it is used to acquaint beginners with the methods of experimental psychology, both qualitative and quantitative. Third, it furnishes material for experimental demonstration in the elementary and advanced lecture courses.

STRENGTH OF MATERIALS LABORATORIES.

These laboratories are equipped with apparatus for the determination of the physical properties of the materials of construction and for illustrating the fundamental laws of the strength of materials. The equipment includes:—

(*a*) Riehle testing machine of 60,000 lbs. capacity, a Wicksteed 100-ton, a Wicksteed 50-ton, and an Emery 75-ton machine for testing the tensile, compressive and transverse strength of the several materials of construction. To the Wicksteed has been added a specially

designed arrangement, by which the transverse strength of girders and beams up to 26 ft. in length can be determined. Special holders have also been designed and made in the laboratory for investigating the tensile and shearing strength of timber, and for the testing of wire ropes, belts, etc. An Olsen machine of 10,000 lbs. capacity is used for testing wire.

(*b*) A Rondet-Schor Machine, with a capacity of 500 kilograms, for testing textile fabrics.

(*c*) A Torsion Machine with a specially designed angle measurer, by which the amount of the torsion can be measured with extreme accuracy.

(*d*) An accumulator, furnishing a pressure of 3,600 lbs. per square inch, which is transmitted to the several testing machines, and ensures a perfectly steady application of stress, an impossibility when any form of pump is substituted for an accumulator. An automatic electric motor has been designed in the laboratory and constructed for the purpose of actuating the accumulator.

(*e*) A Blake and Worthington steam pump and an electric pump, designed to work against a pressure of 3,600 lbs. per square inch. The accumulator may be actuated by any of the pumps, and, if at any time it is necessary to do so, any of the pumps may be employed to actuate the testing machine direct. When in operation, the work of the pump and the accumulator is automatic.

(*f*) Extensometers of the Bovey, Ewing, Unwin, Martens, Marshall and other types.

(*g*) Portable cathetometers, and also a large cathetometer specially designed and constructed for the determination of the extensions, compressions and deflections of the specimens under stress in the testing machines.

(*h*) Various electric motors for working the several machines.

(*i*) A drying oven for beams up to 26 feet in length. The hot air in this oven is kept in circulation by means of a fan driven by an electric motor.

(*j*) Numerous gauges, amongst which may be specially noticed an Emery pressure gauge, graduated in single lbs. up to 2,500 lbs. per square inch. All of the testing machines are on the same pressure circuit, and are connected with the Emery gauge and also other standard gauges, including recording gauges. This arrangement provides a practically perfect means of checking the accuracy of the testing.

(*k*) Special apparatus and recording gauge for the testing of hose, etc.

(*l*) Dynamometers for measuring the strength of textile fabrics, the holding power of nails, etc.

(*m*) Apparatus for determining the elasticity of long wires.

(*n*) Apparatus for determining the hardness of materials of construction, including Shore scleroscope.

(*o*) Zeiss and other microscopes.

(*p*) Delicate chemical and other balances. A very important part of the equipment is the Oertling balance, capable of indicating with extreme accuracy weights of from .00001 lb. up to 125 lbs.

(*q*) Apparatus for the microscopic study of metals and for microscopic photography.

(*r*) Micrometers of all kinds, including a 10 inch Howard gauge.

(*s*) A transverse bending machine which is adapted for loads up to 3,000 lbs. and for beams of 10 ft. span, and a testing machine for applying bending and torsion simultaneously.

ZOOLOGICAL LABORATORIES.

The Zoological Department occupies the whole of the uppermost floor of the east wing of the Arts Building and a large portion of the floor immediately below.

It consists of:—

(*a*) A large laboratory affording accommodation for a class of 80 students.

(*b*) A smaller laboratory capable of seating about 18 students.

(*c*) Three small laboratories fitted up for purposes of research.

2. MUSEUMS.

ARCHITECTURAL MUSEUM.

The Museum of the Department of Architecture contains a representative collection of historic casts illustrating the development of architectural ornament and form, and the technique of architectural material. Many of the casts have been specially prepared for the Department. The group of English mediæval art is unique in any University on this continent. The collection of metal work includes examples of iron, brass, copper and jewellery, and is arranged so as to exhibit the technical possibilities of the material.

MUSEUM OF HYGIENE.

DIRECTOR:—PROF. T. A. STARKEY.

The material in the museum has been rearranged with a view to exhibiting not only specimens of the best and most approved types of appliances in each particular branch of public health, but also examples of types which are to be avoided on hygienic principles.

In order to facilitate study and reference, the specimens have been classified upon a decimal system under the following sections:—

1. *Disinfection.*—Including disinfecting apparatus of all kinds, disinfectants and antiseptics.

2. *Lighting and Heating.*—Showing contrivances used for these purposes.

3. *Water.*—Showing conditions connected with pollution of water supplies, whether derived from the surface or underground sources; methods of purification on large and small scales; water pipes, etc., and the influence which these fittings may exert upon the water contained therein.

4. *Soils and Buildings.*—Building sites, various kinds of soils; relation between soil and dampness; permeability of soils to gases and water; composition of soils; effects of ground moisture on dwellings; measures to be taken against dampness and foul air; and building materials of all kinds.

5. *Air.*—Including ventilation schemes and appliances; climate and meteorology, with apparatus illustrative of each class.

6. *Foodstuffs.*—Adulterations and sophistications practised; samples of unsound foodstuffs.

7. *Bacteriological and Pathological.*—Specimens of diseased meats; specimens and slides of all the common micro-organisms, pathogenic and non-pathogenic.

8. *Clothing.*—Specimens of all the materials utilized for the manufacture of clothing, showing the raw state and the various processes through which they pass until the finished product is reached; the hygienic value of these various articles.

Injuries and deformities which may directly result from the use of badly designed articles of clothing; history and evolution of clothing.

9. *Drainage and Refuse Disposal.*—This section includes every type of appliances used as sanitary fixtures in buildings; drainage schemes; ultimate disposal of refuse both liquid and solid,—refuse destructors, and sewage disposal plants. The section also includes types of faulty methods and appliances which on principle ought to be avoided.

In addition to the regular museum exhibit, there is a collection of over 1,000 lantern slides illustrative of phases of hygiene. The slides have been so arranged as to be available for demonstrations as hand specimens.

A catalogue with text and full description of all the exhibits contained in the museum is issued by the University authorities, and may be purchased at the general office.

PATHOLOGICAL MUSEUM.

DIRECTOR:—PROFESSOR HORST OERTEL.
CURATOR:—MAUDE E. ABBOTT, B.A., M.D.
ASSISTANT CURATOR:—JOSEPH KAUFMANN, M.D.
OSTEOLOGIST AND PREPARATOR:—E. L. JUDAH.

The Pathological Museum of the University consists to date of about 3,200 mounted and catalogued specimens on shelves, and a considerable storage from which material is constantly being added. A descriptive catalogue is in process of preparation and the part on the Haemopoietic organs has been published by the Oxford Press. Other parts are available and are being made ready for print through the help of the Osler Catalogue and Cooper Funds. In addition the pathological collection of the Royal Victoria Hospital consists of 240 specimens mounted in colors, on shelves and catalogued, and much storage material for teaching purposes including an extensive set of microscopic slides and charts for pathological and clinical teaching.

THE PETER REDPATH MUSEUM.

HONORARY CURATOR:—PROF. ARTHUR WILLEY.
CURATOR:—E. ARDLEY.

The large and valuable collections in botany, zoology, mineralogy and geology are arranged in such a manner as to facilitate the work in these departments.

The general arrangement is as follows:—

1. The botanical room on the ground floor contains the herbarium, consisting of 50,000 specimens of Canadian and exotic plants and collections illustrating structural and economic botany.

2. In the corridor on the ground floor is exhibited the Todd Ethnographical Collection from West Africa.

3. The Lyman entomological room is also situated on the ground floor. Mr. A. F. Winn is the entomological curator under the Lyman Bequest.

4. On the first floor is a room over the entrance hall, in which are cases containing archæological and ethnological objects, including collections from the Queen Charlotte Islands, from Egypt, and from West Africa.

5. This room opens into the great museum hall, on each side of which are alcoves with upright and table cases containing the collection in palæontology arranged primarily to illustrate the successive geological systems, and subordinately to this, in the order of zoological and botanical classification, so as to enable the student to see the

general order of life in successive periods, and to trace any particular group through its geological history.

6. At the extreme end of the hall are placed the collections of minerals and rocks, arranged in such a manner as to facilitate their systematic study. In the centre of the hall are economic collections and large casts and models.

7. In the upper story or gallery of the great hall are placed the zoological collections; the invertebrate animals in table cases in regular series, beginning with the lower forms; the vertebrate animals in upright cases, in similar order. The PHILLIP CARPENTER COLLECTION of shells is especially noteworthy for its arrangement and completeness.

Papers and memoirs relating to certain type specimens in the collections can be obtained from the Assistant Curator. Classes of pupils from schools can be admitted on certain days under regulations which may be learned from the professors or from the Registrar of the University.

THE McCORD NATIONAL MUSEUM

This Museum is located in the old Joseph House, at the corner of Sherbrooke and McTavish Streets. The collection is a gift to the University from Mr. David Ross McCord of Temple Grove, a graduate in Arts of 1863, and in Law of 1867. The range of the collection is most extensive, comprising, as it does, mementoes of the great statesmen, warriors, writers, and spiritual leaders among the two principal races which are now represented in Canada, as well as of the great explorers of every part of the North American continent. The Arctic souvenirs are especially numerous and important, and in the department of Wolfiana, the Museum is probably unrivalled.

One of the most important departments is that treating of the North American Indian, the section relating to the Indians of the Eastern half of the continent being especially complete. Here are to be seen the arms and personal relics of Tecumseh and Brant, and most wonderful specimens of wampum and Indian silver. The great series of paintings illustrative of the campaigns and archæology of Canada are not only accurate, but artistic. There are separate departments for china, glass and historical furniture as well as one for the cradle industries of Canada. There is a special room for relics of the Founder of the University, and of its first great Principal, Sir Wm. Dawson, with his distinguished colleagues in Science at the time, Sir William Logan and Dr. Sterry Hunt.

A special aim of the Museum is to form a school of useful and ornamental art, based on types of native Indian industry, such as the manufacture of wall papers, works in metals of all kinds, and ceramic work, in the motifs for which the Museum is especially rich.

3. WORKSHOPS.

The workshops, erected on the Thomas Workman Endowment, have a floor area of more than 20,000 square feet.

Equipment.—The carpenter shop and the pattern shop contain thirty-eight carpenters' and pattern-makers' benches complete with the necessary sets of hand tools, twenty-two wood-turning lathes with their turning tools, a large pattern-maker's lathe for faceplate work, one circular-saw bench, a jig-saw, a band-saw, two wood-trimmers, a surface-planer, a thickness planer, a mortising machine, a saw-sharpener, and one universal wood-working machine.

The smith shop is provided with twenty Sturtevant forges, which are power-driven and are connected with an exhaust fan. There is a power hammer, and the necessary equipment of anvils, swage blocks, sets, flatteners and other tools. Provision is made for instruction in soldering and brazing.

The foundry has benches, tools and apparatus for bench and floor moulding and core-making, and is able to accommodate twenty students. A gas-fired brass melting furnace, a cupola for melting iron, and the necessary core-ovens and core-benches give facilities for undertaking iron foundry work in green and dry sand, and for brass moulding. The stop is served by a hand travelling crane of one ton capacity.

The machine shop has twelve 18-inch engine lathes, one 18-inch turret lathe fitted for stud and screw making, one 27-inch engine lathe, one 72-inch surfacing lathe, one brass-finishing lathe, one 36-inch vertical drilling machine with compound table, one universal milling machine with vertical milling attachment and dividing headstock, one planer capable of taking work up to 24 x 24 in. x 5 ft., one 9-inch slotting machine, one 16-inch shaper, one universal grinding machine, centering machine, a cutter grinder, a tool grinder, and an inch vertical drilling machine with compound table, one universal buffing and emery grinding machine. There are vise benches for eighteen students, with the necessary hand-tools, and a marking-off table. The tool-room contains a full equipment of drills, reamers, milling cutters, and accessories, gauges, calipers, and other measuring instruments.

All the machinery in the workshops is driven electrically by motors taking power from the generating station in the Macdonald Building.

REGISTER OF STUDENTS.

SESSION 1919-1920

FACULTY OF ARTS

FIRST YEAR

(*McGill College*)

NAME	STREET ADDRESS	CITY OR TOWN
Addleman, William		Pembroke, Ont.
Adney, Francis Glen (B.Sc. Course)		Woodstock, N.B.
Allan, Warde Baunton	602-13th Ave. West	Calgary, Alta.
Amaron, Errol Calvin	115 St. Anne St.	Quebec, Que.
Anderson, Llewellyn K.		Beauharnois, Que.
Ballantyne, Charles Trenholme	678 Mountain St.	Montreal, Que.
Beattie, James Robert (B.Sc. Course)	309 Stanley St.	Montreal, Que.
*Bergevin, Henry J.		Chateaugay, N.Y.
Bernstein, Jacob Clarence (B.Sc. Course)	5 Tara Hall Ave.	Montreal, Que.
Bishop, Gilbert (B.Sc. Course)		Western Bay, Nfld.
*Boulanger, Donald Louis	47 Napoleon St.	Quebec, Que.
Boyd, David (B.Sc. Course)	122 George V. Ave.	Lachine, Que.
*Bradfield, Gordon Munro (Withdrew Nov., 1919)	28 Rosemount Ave.	Toronto, Ont.
Bubroff, Isadore	1179 St. Dominique St.	Montreal, Que.
Burnett, James Frederick J.	242 Westmount Boulevard	Westmount, Que.
Calder, James Carswell		Lachute, Que.
Campbell, Frank Robinson		New Denver, B.C.
Cantley, Donald Fraser (B.Sc. Course)		New Glasgow, N.S.
†Chisholm, Gavin William	35 Aberdeen Ave.	Westmount, Que.
Clark, Hugh Stuart	Alexandra Hotel	Ottawa, Ont.
Cohen, Lawrence Z.	25 Rosemount Ave.	Westmount, Que.
Collinge, Arthur Leyland W.	358 Beaconsfield Ave.	Montreal, Que.
Collins, Stanley Ralph		Hurdman's Bridge, Ont.
Cowan, David	143 Stanley St.	Montreal, Que.
Craik, Galen Howe		Melbourne, Que.
Crestohl, Max Nathan	1655 Esplanade Ave.	Montreal, Que.
†Davidson, Edward Leander		Upper Melbourne, Que.
Duval, Robert Herbert (B.Sc. Course)	17 Victoria St.	St. Johns, Q e.
Edgecombe, Stanley		Carbonear, Nfld.
Egg, Norman	359 West Hill Ave.	Montreal, Que.
Ellison, Max	235 Jeanne Mance St.	Montreal, Que.
Epstein, Isidore	86 Milton St.	Montreal, Que.
Falconer, Keith	47 Arlington Ave.	Westmount, Que.
Fielding, Charles Rudolph (B.Sc. Course)		Canso, N.S.
Fensom, Kenneth Gordon	393 Roslyn Ave.	Westmount, Que.
Figler, Bernard	1138 St. Dominique St.	Montreal, Que.

*Partial. †Double Course.

NAME	STREET ADDRESS	CITY OR TOWN
Finkelstein, Moses (B.Sc. Course)	106 Dorion St	Montreal, Que.
Forsyth, D. T. Irwin	432 Frontenac St	Montreal, Que.
Fraser, Douglas Anderson		Quesnel, B.C.
Freeman, Harold	1107 Clarke St	Montreal, Que.
Fullerton, Charles Watson	320 Kensington Ave	Westmount, Que.
Gault, Carroll Lever	305 Stanley St	Montreal, Que.
Ginn, George Willis C	Box 45	Richmond, Que.
Goldblatt, Aaron	841 Cadieux St	Montreal, Que.
*Hall, Thomas Malcolm (Withdrew Jan., 1920)	84 Brock Avenue	Montreal West, Que.
†Hameroff, Myer (B.Sc. Course)	115 St. Louis St	Lachine, Que.
Hannan, Charles Scott (B.Sc. Course)	19 Drummond St	Montreal, Que.
Henderson, Alexander Gavin	Rideau Cottage	Ottawa, Ont.
Heron, Herbert Y		Billing's Bridge, Ont.
Hodgson, John Robert L (Withdrew Nov. 13, 1919)	205 Christopher Columbus St.	Montreal, Que.
Holtham, Hubert F. R		Waterville, Que.
Hoover, Edward Philip	305 Bourbonnière St	Maisonneuve, Que.
Hough, Elswood Stanley	280 Roslyn Rd	Winnipeg, Man.
Howell, John Roderic L	Gadespring, Hemel, Hempstead, Herts., Eng.	
†Hudon, James Joseph V		Richmond, Que.
Hutcheson, John Holden	457 Clarke Ave	Westmount, Que.
*Jackson, Herbert Norman	58 McTavish St	Montreal, Que.
*Jackson, John Arnold		Chilliwack, B.C.
*Johnson, Albert		Carbonear, Nfld.
Johnson, David Moffat	100-44th Ave	Lachine, P.Q.
Kaplansky, David (Withdrew Oct. 7, 1919)	231 Mance St	Montreal, Que.
Lacowitsky, Jeremiah (B.Sc. Course)	60 Grubert St	Montreal, Que.
LeMessurier, Ralph Hine	113 Gower St	St. John's, Nfld.
Levinson, Leon	4181 Sherbrooke St. W	Montreal, Que.
*Livingstone, Duncan		High Bank, P.E.I.
*McAvoy, James	66a Knox St	Point St. Charles, Montreal, Que.
*MacFarlane, John Douglas B.	Macdonald College	Ste. Anne de Bellevue
McGerrigle, Clarence John		Ormstown, Que.
McGibbon, James Wright		Lachute Mills, Que.
McIntyre, Andrew Thomson		Norden, Largs, Scot.
McLaren, Donald J. K	97 St. Foye Rd	Quebec, Que.
*Macnab, Allan Graham		Kamloops, B.C.
Marsh, Frank Jason	Rural Route No. 2	Brome, Que.
Martin, Douglas G. (B.Sc. Course)	59 Riverside Drive	Lachine, Que.
Martin, Sydwell Alexander V	548 Gilmour St	Ottawa, Ont.
*Meikle, Stuart F (Withdrew early in session)		Morrisburg, Ont.
Mendelssohn, Sam Leon (B.Sc. Course)	157 Rachel St. E	Montreal, Que.
Mettarlin, A. Hyman	847 City Hall Ave	Montreal, Que.
Mick, Abner Charles (Withdrew Jan. 20, 1920)		Micksburg, Ont.
Miller, Joseph States (B.Sc. Course)	79 St. Dominique St	Montreal, Que.
Mitchell, Andrew		Rawdon, Que.
Molson, Colin John G	556 Pine Ave. W	Montreal, Que.
*Moock, Russell H	232 Jefferson St	Paterson, N.J.
Moore, Allan Frederick		Billing's Bridge, Ont.

*Partial. †Double Course.

Name	Street Address	City or Town
†Moore, Ernest Nelson		St. Chrysostome, Que.
Mossman, Donald Davis (B.Sc. Course)	288 McDougall Ave	Outremont, Que.
Munro, William David	319 Grosvenor Ave	Westmount, Que.
Norman, Fred Taylor		Bay Roberts, Nfld.
Ogilvy, John Angus		Woodlands, Que.
Owens, Keith Beaumont		Lachute, Que.
*Plow, Herbert Allan	481 Strathcona Ave	Westmount, Que.
Prudham, William Merrill		Wiarton, Ont.
Puddicombe, George Beverly	410 Queen St	Ottawa, Ont.
†Pye, Martin James (B.Sc. Course)		Windsor, Que.
Radmore, Arthur		Aylmer, Que.
Readl Stanley Merritt E	37 Melbourne St	Sherbrooke, Que.
*Reid, Howard Edward		St. John, N.B.
Rosen, Isidore	270 Mance St	Montreal, Que.
*Ross, James Forsyth	110 St. Peter St	Quebec, Que.
Schwartzman, Jacob (B.Sc. Course)	655 St. Urbain St	Montreal, Que.
*Shane, Samuel J	1744 Mance St	Montreal, Que.
*Shatford, Reginald Alexander (B.Sc. Course)	1287 Davie St	Vancouver, B.C.
Shillington, John Toseland	281 Gilmour St	Ottawa, Ont.
Simpson, Robert Geoffrey	395 Mountain St	Montreal, Que.
Smith, Frederick McIver	55 Clandeboye Ave	Westmount, Que.
Smith, Jewitt Rice	456 East 19th St	Brooklyn, N.Y.
Spector, Jack	24 Laval Ave	Montreal, Que.
Stephenson, Heber James	R.R. No. 2	Monckland, Ont.
Stewart, Donald Laughlin		Dunvegan, Ont.
Strange, Arnold	70 Lafayette Ave	Montreal, Que.
*Timmins, Noah A (Withdrew Dec., 1919)	97 Gordon Crescent	Westmount, Que.
Van Vliet, G. Lyman		Lacolle, Que.
Wadsworth, Gordon Campbell	2036 Mance St	Montreal, Que.
Wall, Gilbert	148 Cote St. Antoine Rd	Westmount, Que.
†Walter, Felix Harold	635 University St	Montreal, Que.
Way, Joseph Harold Gosling		Bonavista, Nfld.
*Webster, Robert Chilion Peter (Withdrew early in session)	196 Metcalfe St	Ottawa, Ont.
Wells, Herbert		Wesleyville, Nfld.
†West, Alfred M	674 Durocher Ave	Outremont, Que.
Whitmore, Cecil Humphrey		Maxville, Ont.
Willard, Eugene Wallace	144½ Cyrille St	Quebec, Que.
Wilson, William Hollister	150 Drummond St	Montreal, Que.
Wilson, William Robert		Athelstan, Que.
Winn, Albert Reginald (B.Sc. Course)	32 Springfield Ave	Westmount, Que.
Winslow, Terence Hansard	136 Middlegate	Winnipeg, Man.
Woodhouse, Douglas Hamilton	74 Knox St	Montreal, Que.

(Royal Victoria College)

Ball, Carolyn Muir	4190 Sherbrooke St	Westmount, Que.
Ballantyne, Elizabeth Gordon	124 Ballantyne Ave. S	Montreal West, Que.
Banfill, Florence Mahala		East Angus, Que.
Beattie, Marion Tennant	518 St. Joseph St	Lachine, Que.
Beckwith, Grace Dean McLeod	1423 Fernwood Rd	Victoria, B.C.
*Bernstein, Ruth Gertrude	5 Tara Hall Ave	Montreal, Que.
Bissett, Alice MacGowan	314 Broadway Ave	Lachine, Que.
Brankley, Jean Wilkyn		Chatham, N.B.
*Brown, Marguerite Campbell		Ayer's Cliff, Que.

*Partial. †Double Course.

Name	Street Address	City or Town
*Burrows, Ava Chapman	12 College Hill Rd	West Somerville, Mass
Cameron, Elizabeth White	62 Charlotte St	Sydney, N.S.
Campbell, Edith Dixon	59 Columbia Ave	Westmount, Que.
Campbell, Edith Margaret (B.Sc. Course)	190 Bayswater Ave	Ottawa, Ont.
Campbell, Laurette	161 Selby St	Westmount, Que.
Canning, Mary Kathleen (B.Sc. Course)	132 Vendome Ave	Montreal, Que.
*Clarke, Verna Maude	696 Sherbrooke St. W	Montreal, Que.
Coyle, Mabel Elliott	65 Chesterfield Ave	Westmount, Que.
Cross, Dorothy Alexandra	40 Quinn Ave	Longueuil, Que.
Ditchfield, Frances	640 Grosvenor Ave	Westmount, Que.
Dobbie, Aggie Maud	Box 203	Lachute, P.Q.
Dorken, Sylvia Hilda	102 The Boulevard	Montreal, Que.
Douglas, Frances Mildred	661 Grosvenor Ave	Westmount, Que.
Duval, Irene Byrd	Davaar Ave	Outremont, Que.
*Eakin, Vera G	68 Bruce Ave	Westmount, Que.
Evans, Annie Lorene	40 Seeley St	St. John, N.B.
Evans, Katherine Jeanne	446 Daly Ave	Ottawa, Ont.
Fair, Louisa Margaret	207 Mansfield St	Montreal, Que.
Fitch, Esther	146 Lockwell Ave	Quebec, Que.
Foster, Joan Mary Vassie	36 Cobourg St	St. John, N.B.
Freedman, Celia	366 Kensington Ave	Westmount, Que.
Freedman, Sadie (B.Sc. Course) (Withdrew Oct. 20, 1919)	366 Kensington Ave	Westmount, Que.
Freyvogel, Charlotte Rosalie	162 Villeneuve W	Montreal, Que.
*Fridmann, Liv	4211 Dorchester St	Westmount, Que.
*Gaudet, Gilberte	405 Beaubien St	Montreal, Que.
Gilday, Lois (B.Sc. Course)	59 Bruce Ave	Westmount, Que.
Gittleson, Gertrude Freda	72 Le Marchant Rd	St. John's, Nfld.
Grigg, Mildred McIntire	c-o Jas. Coristine & Co	Montreal, Que.
Hodge, Dorothy Evelyn (B.Sc. Course)	459 Lansdowne Ave	Westmount, Que.
Hodge, Edith Alexandria		St. Laurent, Que.
Jackson, Alma Theresa	10 Brooke Ave	Westmount, Que.
James, Kathleen	92 Selby Ave	Westmount, Que.
*Jenkins, Florence Irene	666 Belmont Ave	Westmount, Que.
Johnston, Jean Laidlaw	4474 St. Catherine St	Westmount, Que.
Kerr, Lorna Walson Kincaid	256 Mountain St	Montreal, Que.
Kert, Rebecca	783 City Hall Ave	Montreal, Que.
*Klein, Anna Ethel	2171 Park Ave	Montreal, Que.
*Klein, Rose	1405 St. Urbain St	Montreal, Que.
Klineberg, Queenie	917 St. Denis St	Montreal, Que.
Knowlton, Virginia Wallace (B.Sc. Course)	626 Belmont Ave	Westmount, Que.
Kydd, Mary Winnifred	4277 Dorchester St	Westmount, Que.
Laidlaw, Nancy Whitehill	179 Belgrave Ave	Montreal, Que.
Lamb, Audrey Wakefield	455 Mackay St	Montreal, Que.
*Lamontagne, Germaine (Withdrew early in session)	91a Mance St	Montreal, Que.
Laurin, Alice Evelyn		Lachute, Que.
Leggatt, Marjorie Marie (B.Sc. Course)	17 Monk St	Ottawa, Ont.
†Liffiton, Doris Irving (B.Sc. Course)	620 St. Joseph St	Lachine, Que.
McConnel, Dorothea Amelia	235 Clarke Ave	Westmount, Que.
McConnel, Marjorie (B.Sc. Course)	235 Clarke Ave	Westmount, Que.
MacDonnell, Marjory Esther		Wolseley, Sask.
McEwen, Gladys Mary Elizabeth		Maxville, Ont.

*Partial. †Double Course.

NAME	STREET ADDRESS	CITY OR TOWN
*Maclean, Sarah Jean Eilleen	233 Old Orchard Ave	Montreal, Que.
McLellan, Annie Mildred	189 Villeneuve St. W	Montreal, Que.
McPhail, Mary Archibald	18 Bishop St	Montreal, Que.
Magee, Mabel Angela St. J	42 Wellington Row	St. John, N.B.
Matts, Florence Violet	351 Olivier Ave	Westmount, Que.
Mitchell, Janet I. (B.Sc. Course)	340 St. Joseph St	Lachine, Que.
Montgomery, Jessie Alberta		North Gower, Ont.
*Morphy, Margery Brunhilde	770 Sherbrooke St. W	Montreal, Que.
Munro, Iveagh (Withdrew Nov. 12, 1919)		Pembroke, Ont.
Murray, Margaret Agnes	331 Elm Ave	Westmount, Que.
Palmer, Edna May		Sherbrooke, Que.
Paxton, Dorothy Helen (B.Sc. Course)	4854 St. Catherine St	Westmount, Que.
Perry, Millicent Audrey	271 Jeanne Mance St	Montreal, Que.
Pick, Marjorie	617 Roslyn Ave	Westmount, Que.
Pratt, Margaret Eileen	109 Selby St	Westmount, Que.
Rabinovitch, Reta Sylvia	163 Esplanade Ave	Montreal, Que.
*Rees, Edythe Ann (Withdrew early in session)		Gananoque, Ont.
Reilly, Emma Alberta (B.Sc. Course)	29 Ballantyne Ave. S	Montreal West, Que.
Reyner, Jean (B.H.S. Course)	4165 Western Ave	Westmount, Que.
Rosen, Florence	270 Mance St	Montreal, Que.
Roy, Alice Rosslyn	61 Norwood Ave	Ahuntsic, Que.
Russell, Dorothy Margaret	425 Mount Pleasant Ave	Westmount, Que.
Scovil, Leah Graham	471 Grosvenor Ave	Westmount, Que.
Shirriff, Lillian Clementine W		Huntingdon, Que.
Shlakman, Leanora	2281 St. Urbain St	Montreal, Que.
Slack, Zerada	347 Kensington Ave	Westmount, Que.
*Smart, Dorothy Maud (Withdrew Mar. 18, 1920)	500 Roslyn Ave	Westmount, Que.
Smith, Dorothy Frances		St. Martins, N.B.
Stewart, Audrey Elizabeth		Glenelm, Que.
Superior, Ethel	1662 Park Ave	Montreal, Que.
Teed, Dorothy Isobel	119 Hazen St	St. John, N.B.
Turner, Edythe Mary Scott	79 Columbia Ave	Westmount, Que.
*Wayland, Esther	1301 St. Viateur St. W	Montreal, Que.
Wighton, Lucy Jean Elizabeth	134 Abbott Ave	Westmount, Que.
*Wilder, Eunice Ruth	543 Dorchester St. W	Montreal, Que.
*Wilson, Barbara	725 Belmont Ave	Westmount, Que.
Wisenberg, Rosa	752 St. Lawrence St	Montreal, Que.
Wood-Legh, Kathleen Louise	524 Ocean Ave	Woofords, Me.
Young, Florence Emily	4847 Westmount Ave	Westmount, Que.

SECOND YEAR

(*McGill College*)

Addy, Paul Herbert		Jordan, Ont.
Alexander, Benjamin (B.Sc. Course)	28 Durocher St	Montreal, Que.
Anderson, Duncan Robinson	100 Park Ave	Montreal, Que.
Avison, Henry R. C		New Denver, B.C.
Badger, Roland Ashley		Ayer's Cliff, Ont.
*Barré, Charles Stanislaus V	1161 St. Hubert St	Montreal, Que.
Barrett, Arthur William Reddy	415 Metcalfe Ave	Westmount, Que.
Bourgoin, Henry Edmund	430 MacKay St	Montreal, Que.
Bullock, Theodore Lafleur		Roxton Pond, Que.

*Partial.

Name	Street Address	City or Town
*Brault, Magloire Jos.		Cranbrook, B.C.
†Cahana, David	1265 Cadieux St.	Montreal, Que.
Caldwell, William Stewart	737 Shuter St.	Montreal, Que.
*Chazeaud, Camille Armand		Pointe-aux-Trembles, Que.
*Cooder, Howard R.	201 Esplanade Ave.	Montreal, Que.
Copland, Edward Bruce	4307 Montrose Ave.	Westmount, Que.
Cousens, Henry		Bolton Centre, Que.
Davis, Charles Freeman		Freshwater, Nfld.
Elliot, Howard L.	496 Victoria Ave.	Westmount, Que.
Fraser, Clarence Harrower	350 MacKay St.	Montreal, Que.
Gaboury, Marcel	324a St. Catherine St. W.	Montreal, Que.
Goubjila, Theodore	122 Bulevardue Elizabeth.	Bucharest, Roumania.
Gradinger, Carol Hyman	106 Bourget St.	Montreal, Que.
Hall, Robert		Cornwall, Ont.
Harris, Richard C		New Denver, B.C.
Hershon, Henry (B.Sc. Course)	1402 Clarke St.	Montreal, Que.
*Hetherington, Cecil H		Breckenridge, Que.
†Higinbotham, Norman Lindsay	620-12th St. South	Lethbridge, Alta.
*Jess, John Andrew, B.A. (Withdrew Oct. 14, 1919)		Dromara, Co. Down, Ireland.
Johnson, Andrew Stuart		Thetford Mines West, Que.
Johnston, Charles Franklin	56 Bellevue Ave.	Westmount, Que.
†Kanigsberg, Jacob Clarence (B.Sc. Course)	431 Henri Julien Ave.	Montreal, Que.
*Kelly, George Frederick		Cumbran, Monmouthshire, England
Kennedy, William Roland (B.Sc. Course)	433 Mance St.	Montreal, Que.
Kerr, Thomas McLean	1280 Joseph St.	Verdun, Que.
Kneeland, Clarence Russell	320 First Ave.	Verdun, Que.
†Leslie, Angus Ogilvy	824 Dorchester St. W.	Montreal, Que.
Lidstone, Victor John	66 Bruce Ave.	Westmount, Que.
*Litchfield, Arthur Vincent	12 Crewe St.	Derby, England.
Lyall, William Thomas	515 Clarke Ave.	Westmount, Que.
McCulloch, Frank Dudley (B.Sc. Course)	76 Hochelaga St. E.	Moose Jaw, Sask.
McDougall, Geoffrey Springle	686 Sherbrooke St. W.	Montreal, Que.
McDougall, James Malcolm		Aylmer, Que
Macklaier, William Fraser	851 Lorne Crescent	Montreal, Que.
McLean, Duart Vercoe (B.Sc. Course)	24 Forty-first St.	Lachine, Que.
*Marsh, Alfred Finnis		Birmingham, England
Mathewson, Clive	112 St. Famille St.	Montreal, Que.
Moore, Dale Hendry		Ayer's Cliff, Que.
Murray, Sidney Grosvenor	254 Douglas Ave.	St. John, N.B.
O'Hagan, Howard	1275 Pleasant Ave.	Victoria, B.C.
Oliver, Arthur Samuel		Smethwick, England.
*Parkes, Robert Henry		Belfast, Ireland.
Peterson, Frederick Olaf	2158 Mance St.	Montreal, Que.
Pierce, Sydney D.	724 Upper Belmont Ave.	Westmount, Que.
*Pitt, Thomas J.	Haldon Ave.	Teignmouth, England.
*Richards, Archie L.	Oakwood House	Maesteg, So. Wales.
Rohrlich, Louis	1297 Cadieux St.	Montreal, Que.
Rosenstein, Murray	157 East St.	Sault Ste. Marie, Ont.
Schafer, Sydney Louis	255 Esplanade Ave.	Montreal, Que.
Scheffer, Isidore (B.Sc. Course)	83 Rivard St.	Montreal, Que.
Shea, Daniel Francis	226 St. Martin St.	Montreal, Que.

*Partial. †Double Course.

Name	Street Address	City or Town
Stanway, Albert Edward	14 Arlington Ave.	Westmount, Que.
Steine, Ben Zion (B.Sc. Course)	819 University St.	Montreal, Que.
Stewart, William Ranald	219 Coburg St.	Ottawa, Ont.
Turrell, Thos.	71 Wood Lane	Handsworth, England
Webster, Gordon M.	478 Roslyn Ave.	Westmount, Que.
White, Harold	West Lane	Shipley, Yorks., Eng.
Wolepor, Benjamin (B.Sc. Course)	68-7th Avenue	Lachine, Que.
Zuckerman, Joshua (B.Sc. Course)	135 Rachel St. E.	Montreal, Que.

(Royal Victoria College)

*Ayer, Ruth Claxton	343 Olivier Ave.	Westmount, Que.
*Aylen, Dorothea E.	274 O'Connor St.	Ottawa, Ont.
*Aylen, Lois	274 O'Connor St.	Ottawa, Ont.
*Bagley, Evelyn Mae	533 Grosvenor Ave.	Westmount, Que.
Banfill, Mary Evelyn Sarah		East Angus, Que.
Birkett, Winifred Leighton	252 Mountain St.	Montreal, Que.
Brooke, Minette	1484c Cadieux St.	Montreal, Que.
†Brown, Frances Trapp	P.O. Box 168	Kamloops, B.C.
*Comings, Bertha Frances		Eugene, Oregon.
Foley, Violet Elizabeth		St. John, N.B.
Fry, Mary Inez	29 Bellevue Ave.	Westmount, Que.
*Gault, Elizabeth Pentland	305 Stanley St.	Montreal, Que.
Gillies, Helen Mackechnie	205 Mance St.	Montreal, Que.
Goldman, Raya Edna	615 Bloomfield Ave.	Outremont, Que.
Henderson, Jean Tasker	575 Roslyn Ave.	Westmount, Que.
Hibbard, Gladys Evadne (B.Sc. Course)	460 Argyle Ave.	Westmount, Que.
Holloway, Marjorie	2802 Park Ave.	Montreal, Que.
Howell, Muriel Jillard	212 Metcalfe Ave.	Westmount, Que.
Irwin, Chloris C. (B.Sc. Course)	631 Victoria Ave.	Westmount, Que.
James, Norah Gertrude	99 Durocher St.	Montreal, Que.
*Johnston, Norah	286 Stanley St.	Montreal, Que.
Joseph, Rose	236 Elm Ave.	Westmount, Que.
Klineberg, Adele	917 St. Denis St.	Montreal, Que.
*Levinson, Reba Hilda	4181 Sherbrooke St. W.	Montreal, Que.
Levy, Lisa (B.Sc. Course)	25 South Camp Road	Kingston, Jamaica.
†McDonald, Anita Cecilia	201 Agnes St.	New Westminster, B.C.
McGoun, Isabella Winifred	37 Upper Bellevue Ave.	Westmount, Que.
McPartlin, Elizabeth	7 Woodstock Ave.	Montreal, Que.
Macrae, Dorothy	245 Melville Ave.	Westmount, Que.
MacRae, Shirley Edith		Cookshire, Que.
Mansfield, Eleanor	546 Grosvenor Ave.	Westmount, Que.
*Margolies, Jean	203 E. Broadway	New York City.
Medbury, Dorothy Durfee	386 Sherbrooke St. W.	Montreal, Que.
Newnham, Kathleen	Bishopsthorpe	Prince Albert, Sask.
Patton, Eunice Irene		Ormstown, Que.
Reid, Janet Lilian		Huntingdon, Que.
*Rickard, Edwina	19 Highland Ave.	Haverhill, Mass.
Riley, Margaret Louise	1302-8th Ave. N.W.	Calgary, Alta.
Robson, Jean Hay	321 Dromore Ave.	Winnipeg, Man.
Rough, Thelma Margaret	2236 Park Ave.	Montreal, Que.
Sharples, Doris Kathleen	"Birchcote," St. Foye Rd.	Quebec, Que.
Shatford, Ruth Marion	697 St. Catherine St. W.	Montreal, Que.
Smith, Alice Victoria		Phillipsburg, Que.

*Partial. †Double Course.

NAME	STREET ADDRESS	CITY OR TOWN
Snyder, Evelyn Alice	632 Victoria Ave	St. Lambert, Que.
*Spence, Mrs. M	72 Regent Apts., Amesbury Ave	Montreal, Que.
Stewart, Adela Isabel M	"The Manse"	Treherne, Man.
Stuart, Beryl (B.Sc. Course) (Wtihdrew Nov. 6, 1919)	41 Youville Place	Montreal, Que.
Sykes, Dorothy Louise	65 Park St	Canton, N.Y.
Tait, Marjorie Jean		St. Laurent, Que.
†Teggart, Dorothy May	32 St. Luke St	Montreal, Que.
Tuffy, Magdalen Ellen		Cobden, Ont.
Weibel, Louise Esther	35 Souvenir Ave	Montreal, Que.
Wilson, Catharine Robertson (B.Sc. Course)	188 King St. E	St. John, N.B.
Zealand, Vivien Lewis		Houghton, Mich.

THIRD YEAR

(*McGill College*)

*Archibald, Francis Magoun		Wolfville, N.S.
*Armstrong, Paul Frederic	46 Victoria St	Montreal, Que.
Bagg, William Herbert	1357 Clarke St	Montreal, Que.
Biltcliffe, Douglas Bolton	638 Landsowne Ave	Westmount, Que.
Borden, Henry		Grand Pr'é, King's Co., N.S.
†Boyce, J. Clifford	317-11th Avenue E	Calgary, Alta.
†Breitman, Reuben	190 St. Timothée St	Montreal, Que.
Bunt, Lemuel Oscar	R.M.D. No. 1	Thornloe, Ont.
†Bustin, Howard Barlow	158 St. James St	St. John, N.B.
Cameron, George Mansfield		Adamsville, Que.
Common, Ernest Cameron	208 Wilson Ave	Montreal, Que.
*Crawford, Edwin M	373 Prud'homme Ave	Montreal, Que.
Curtis, Gilbert S		Blackhead, B.D.V., Nfld.
Echenberg, Henry Lehrer	58 Souvenir Ave	Montreal, Que.
Farthing, John Colborne	458 Union Ave	Montreal, Que.
Fife, Harry Moore	12 Melrose St	Amherst, N.S.
Foran, Herbert Paul	733 Outremont Ave	Outremont, Que.
Ford, Ross Howitt	81 Pine Ave	St. Lambert, Que.
Franklin, Michael H	2160 Waverley St	Montreal, Que.
†Freedman, Joseph (B.Sc. Course)	93 Sixth Ave	Lachine, Que.
Hebert, Charles Pierre	11 McGregor St	Montreal, Que.
†Hooper, Willis Mathieu		Brownsburg, Que.
*Hudon, Roger	2462 Park Ave	Montreal, Que.
†Kay, Edwin	637 St. André St	Montreal, Que.
Kern, Louis Walter	63 Fairford St. E	Moose Jaw, Sask.
Kern, Marshall James	63 Fairford St. E	Moose Jaw, Sask.
Laing, Alan (Withdrew early in session)	Primrose Ave	Mount Vernon, N.Y.
McCall, George Ronald	41 Lincoln Ave	Montreal, Que.
McGreer, Edgar D'Arcy	831 Lorne Crescent	Montreal, Que.
†McIntosh, Clarence Alexander	43 Park Ave	Ottawa, Ont.
†McKinnon, James Donald		Sudbury, Ont.
McMinn, Alexander Kirk		Straid, Co. Antrim, Ireland.
*McVittie, Thomas Johnstone, M.A.		Blackpool, Lancashire, England.
†Mirsky, Samuel (B.Sc. Course)	359 Cumberland St	Ottawa, Ont.
*Morrison, Donald R		Marsboro, Que.

*Partial. †Double Course.

Name	Street Address	City or Town
*Mullin, Robert D.	28 Devonshire Rd.	Greenfield Park, Que.
†O'Heir, Hugh Bingham	92 Wellington St. S.	Hamilton, Ont.
Phillips, Otto Bernard (B.Sc. Course)	281 Whitney Ave.	Sydney, N.S.
Pratt, William Frederick White	399 Clarke Ave.	Westmount, Que.
Rabinovitch, Boaz (B.Sc. Course)	213 Laval Ave.	Montreal, Que.
†Rabinovitch Jacob (B.Sc. Course)	213 Laval Ave.	Montreal, Que.
Raphael, Max Isaac	151 Drolet St.	Montreal, Que.
Reford, Lewis Eric	300 Drummond St.	Montreal, Que.
*Rexford, Orrin Bain	745 University St.	Montreal, Que.
†Richardson, Eric Carleton (B.Sc. Course)	21 Pine St.	Brockville, Ont.
Ross, Henry Taylor	393 Kensington Ave.	Westmount, Que.
Rowat, Harland Cameron		Athelstan, Que.
Roy, Archibald Edgar (B.Sc. Course)	1050 Mount Royal Ave.	Montreal, Que.
†Schleifstein, Joseph Isaac	1049 St. Urbain St.	Montreal, Que.
*Smith, Archie Ewart	536 Louise Ave.	Brandon, Man.
†Smith, Robert Macfie	246 Oxford St.	Moose Jaw, Sask.
Sperber, Lionel Albert	1616 Hutchison St.	Montreal, Que.
Stevenson, Frederick Kirkland	28 McTavish St.	Montreal, Que.
*Sutherland, Angus	Bonanbridge	Sutherland, Scotland.
Symonds, Victor Kingsley	660 Sherbrooke St. W.	Montreal, Que.
†Teitelbaum, Michael	95 St. Elizabeth St.	Montreal, Que.
*Vanier, Emilien		St. Jerome, Que.
†Vineberg, Norman M.	1518 Mance St.	Montreal, Que.

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*Baillie, Isobel Marjorie	133 Crescent St.	Montreal, Que.
*Barnard, Beatrice Evelyn	526 Grosvenor Ave.	Westmount, Que.
Barnes, Edith L.	P.O. Box 44	St. John, N.B.
Barnes, Doris Scoullar	P.O. Box 44	St. John, N.B.
Borden, Eunice Lothrop		Grand Pré, N.S.
Cameron, Katharine Locke	25 Grey Ave.	Montreal, Que.
Campbell, S. Doris		Lachute, Que.
Cockfield, Helen Reid		Lac Charlebois, Que.
Contant, Rebecca Amy	417 Esplanade Ave.	Montreal, Que.
Dart, J. Doris	123 Edison Ave.	St. Lambert, Que.
Davidson, Winnifred Hazel	748 Decarie Blvd.	Montreal, Que.
Deery, M. Jean H.	85 Hutchison St.	Montreal, Que.
*Ditchfield, Mary Elizabeth	640 Grosvenor Ave.	Westmount, Que.
*Fitzsimons, Anna Florence	734 Rockland Ave.	Outremont, Que.
Ford, Constance	Edale Place	Portneuf Sta., Que.
Ford, Katherine McLaren	Edale Place	Portneuf Sta., Que.
Foster, Mary Winnifred	629 Victoria Ave.	Westmount, Que.
Garrow, Muriel Wilma	289 Mountain St.	Montreal, Que.
Gillespie, Kate Menzies	164 Albert St.	London, Ont.
Godwin, Kathleen F.		Ste. Anne de Bellevue, Que.
Hackett, Aileen Alexandria		Dorval Sta., Que.
Harvey, Constance Muriel	55 Chesterfield Ave.	Westmount, Que.
Hemming, Clarissa (B.Sc. Course)	24 Durocher St.	Montreal, Que.
Higginson, Helen Magee		Buckingham, Que.
*Hodgson, Norah J.	714 Pine Ave. W.	Montreal, Que.
Holland, Ethelwyn Jamieson	2195 Waverley St.	Montreal, Que.
Husk, Ruth Joy Esther		Ulverton, Que.
Larkin, Beatrice Jean		Seaforth, Ont.

*Partial. †Double Course.

Name	Street Address	City or Town
*Lathe, Mrs. Annie S., B.A.		Sudbury, Ont.
Lewis, Esther Eileen	105-44th Avenue	Lachine, Que.
*McCaig, Jean Elizabeth	679 St. Paul St. W	Montreal, Que.
Macdiarmid, Margaret Lumsden	36 Chomedy St	Montreal, Que.
MacIntosh, Hope	220 Hutchison St	Montreal, Que.
*McKean, Alice Lalar	655 Dorchester St. W	Montreal, Que.
McPherson, Anna Isobel	14 Fenwick Ave	Montreal West, Que.
Mathewson, Dorothy R.	112 St. Famille St.	Montreal, Que.
Mills, Gladys Alexandra		Ormstown, Que.
Moule, Dorothy		Ste. Anne de Bellevue, Que.
*Notman, Daintry	4193 Avenue Rd	Westmount, Que.
Olding, Maude Emma Mary		New Glasgow, N.S.
*Prowse, Grace Emily	392 La Salle Rd	Verdun, Que.
Reid, Regina Victoria	104 Prud'homme Ave	Montreal, Que.
*Salomon, Fanny	179 Esplanade Ave	Montreal, Que.
*Salomon, Ruth	179 Esplanade Ave	Montreal, Que.
Silverman, Malca	735a City Hall Ave	Montreal, Que.
*Simon, Beatrice Vina	51 Mullin St	Montreal, Que.
Spier, Jane Dickson	4015 Dorchester St	Westmount, Que.
*Symons, Jennie Laura		Waterloo East, Que.
Thornton, Jessie Muriel	147 Grey Ave	Montreal, Que.
*Wechsler, Mrs. Ray Fleisig	1967 Mance St	Montreal, Que.
Willson, Reta Ethel	2234 Park Ave	Montreal, Que.

FOURTH YEAR

(*McGill College*)

*Adair, Cyril Harris	549 Lansdowne Ave	Westmount, Que.
†Bourke, William Manley	42 Lorne Ave	Montreal, Que.
Bunt, Heber	3025 Albany Rd	Victoria, B.C.
Caverhill, George Rutherford	84 Simpson St	Montreal, Que.
†Center, Ervin Alfred	R.R. No. 2	Lachute, Que.
Coveler, Harry A.	231 St. Lawrence Blvd	Montreal, Que.
*Curtis, René	70 Regent Apts., Amesbury Ave	Montreal, Que.
Di Florio, Pasquale		S. Pietro in Fine, Italy
†Dobson, Robert Munro	51 Nelson Ave	Outremont, Que.
Donald, Frederick Cecil (B.Sc. Course)	70 Cedar Ave	Montreal, Que.
Duncan, William L.	110 Notre Dame Ave	St. Lambert, Que.
†Ereaux, Lemuel Price (B.Sc. Course)	463 Elm Ave	Westmount, Que.
†Evans, Otty Blair	40 Seely St	St. John, N.B.
†Everett, Herbert Stewart		St. Andrews, N.B.
Freedman, Lewis Kellert	86 Park Avenue	Montreal, Que.
†Freedman, Newman Barnett (B.Sc. Course)	86 Park Avenue	Montreal, Que.
Galley, John Vessot (B.Sc. Course)		Pakenham, Ont.
Greaves, Edwin Mortimer	508 Victoria Ave	Westmount, Que.
Joseph, Alfred Hugh (B.Sc. Course)	115 Grand Allée	Quebec, Que.
†Knowlton, Henry Corey		Guildford, Me.
Lalond, George Francis		Riceville, Ont.
Latham, J. Arthur	196 Ash Ave	Montreal, Que.
†McClure, James Carswell		Cowansville, Que.
*McGlaughlin, William Robert	22 Burton Ave	Westmount, Que.
McLean, Angus H.		Orangedale, N.S.
McRae, Roderick Alexander	295 Laval Ave	Montreal, Que.

*Partial. †Double Course.

NAME	STREET ADDRESS	CITY OR TOWN
Martin, Erle Crutchfield		Dewittville, Que.
Mathers, Fred DesBrisay	764 13th Avenue W	Vancouver, B.C.
Maxwell, Gordon N		Seeley's Bay, Ont.
†Murray, William Alexander		Brownsburg, Que.
O'Brien, John Lewis	4130 Dorchester St	Westmount, Que.
†Petersen, James Norman	1214a Des Erables St	Montreal, Que.
Peterson, Norman Edwin		Quebec, Que.
†Rubin, Saul (B.Sc. Course)	68 Colonial Ave	Montreal, Que.
Shaw, Thomas Patton G. (B.Sc. Course)	1022 Dorchester St	Montreal, Que.
†Silver, Philip George	459 Mt. Pleasant Ave	Westmount, Que.
Smith, Clifford B	138 Hampton Ave	Montreal, Que.
Somerville, Wallace Bertram		Bristol, N.B.
Taylor, Robert Donald	107 Cote St. Antoine Rd	Westmount, Que.
Townshend, Cecil Wray		Wolfville, N.S.
†Vaughan, James M	105 Lorraine Ave	Mt. Vernon, N.Y.
Wiseman, Solomon	707 Cadieux St	Montreal, Que.
Wiser, John Philip	La Gallette	Prescott, Ont.

(Royal Victoria College)

Cameron, Sarah Symonds	62 Charlotte St	Sydney, C.B., N.S.
Charlton, Dorothy Kathleen	391 Wiseman Ave	Outremont, Que.
Davidson, Gertrude Hazel	694 Victoria Ave	Westmount, Que.
Douglas, Allie Vibert	4193 Sherbrooke St	Westmount, Que.
Ewing, Gwendolyn Gordon	84 Duke Street	St. John, N.B.
Goddard, Mabel Alice	757 Bloomfield Ave	Outremont, Que.
Henry, Edith F	60 Arlington Ave	Westmount, Que.
Hill, Eleanor Marguerite	768 St. Catherine Rd	Outremont, Que.
Imrie, Isabelle May	364 Olivier Ave	Westmount, Que.
Macdonald, Brenda		Halifax, N.S.
McDougall, Marguerite		Victoria, B.C.
MacKinnon, Flora Janet		Kimberley, Que.
McMillan, Hazel	4257 Avenue Rd	Westmount, Que.
McMillan, Myrtle	4257 Avenue Rd	Westmount, Que.
Macnaughton, Margaret Rose	26 Burton Ave	Westmount, Que.
Mawdsley, Mary Dorothy		Clemens, Alta.
Meyer, Bertha	6 Hudson Ave	Westmount, Que.
Moody, Mary Grace Holland	97 Ash St	Winnipeg, Man.
Nichol, Helen R. H	110 Columbia Ave	Westmount, Que.
Nichol, Jean	110 Columbia Ave	Westmount, Que.
Novick, Fannie	1799 St. Urbain St	Montreal, Que.
Reid, Jean	Granville Ferry	Nova Scotia.
Rorke, E. Christine	1979 Hutchison St	Montreal, Que.
Roston, Lucille (Withdrew Oct. 14, 1919)	4444 Sherbrooke St. W	Montreal, Que.
Savage, Queenie	20 Highland Ave	Montreal, Que.
Scott, Irene Elizabeth		Lachute, Que.
†Tarshis, Anny	187 Bloomfield Ave	Outremont, Que.
Wall, Eileen Mary	538 La Salle Rd	Verdun, Que.
Wilson, Alice Elizabeth	24 Dominion Ave	Sherbrooke, Que.

†Double Course.

SCHOOL OF COMMERCE

FIRST YEAR

NAME	STREET ADDRESS	CITY OR TOWN
Aaronson, Benjamin	1489 St. Urbain St	Montreal, Que.
Bashaw, E. Taylor	279 Marlowe Ave	Montreal, Que.
*Bates, Sidney Frank	498 Argyle Ave	Westmount, Que.
Becker, Louis Julius		Sydney, N.S.
Benson, William Davenport	15 Ontario Ave	Montreal, Que.
Benson, George Frothingham	15 Ontario Ave	Montreal, Que.
*Brownstone, Allan Moses		Herbert, Sask.
Bulgin, James Douglas	23 DeBary Apts., Wardlow St	Winnipeg, Man.
*Brownstone, Samuel Louis		Herbert, Sask.
Burke, Thomas Vincent	348 Bronson Ave	Ottawa, Ont.
*Calvert, Robert Martin	122 Havelock St	Toronto, Ont.
Caplan, Samuel	762 Notre Dame St. W.	Montreal, Que.
Carruthers, George Andrew, Jr.	Evergreen Place	Winnipeg, Man.
Caswell, Arnold Perley	370 Durocher Ave	Outremont, Que.
Clarkson, Rowena Adeline	25 Highland Ave	Montreal, Que.
Cockshutt, Eric Morton	172 Chatham St	Brantford, Ont.
Cohen, Barnet J.	8-A Dorchester St. W.	Montreal, Que.
Creighton, Denton B. M.	39 Cote St. Antoine Rd.	Westmount, Que.
Dobell, Sidney Hope	St. Louis Rd	Quebec, Que.
Drummond, Paul Crathern	15 Macgregor St	Montreal, Que.
Dustan, Stanley Gordon	Box 539	Pictou, N.S.
Elderkin, Clayton Foster	1140 Redland Ave	Moose Jaw, Sask.
Ellin, Mitchel Irving	1117 Clarke St	Montreal, Que.
Falconer, W. Alex	4447 St. Catherine St.	Westmount, Que.
Finley, George Steele	273 Bishop St	Montreal, Que.
Fraser, Charles Douglas	20 Delaware Ave	Ottawa, Ont.
Goodkowsky, Isabella May	421 Mt. Pleasant Ave	Westmount, Que.
Hamilton, George Stratford	Applecroft	Ste. Anne de Bellevue.
Holland, George Allison	2195 Waverley St	Montreal, Que.
Hughes, John Robertson	431 Gilmour St	Ottawa, Ont.
Jones, Gerald Ford	1004 Dorchester St. W.	Montreal, Que.
Kaplan, Harry Albert	307 St. Joseph Blvd. W.	Outremont, Que.
Kee, Charles Sinclair	208 Pitt St	St. John, N.B.
Kellner, Solly	458 Elm Ave	Westmount, Que.
Kersley, George Hubert	135 Brock Ave	Montreal West, Que.
Kirsch, Moses	12 Laval Ave	Montreal, Que.
Laffoley, Eric John	735 Upper Belmont Ave.	Westmount, Que.
McGiverin, Harold MacKintosh (Withdrew Nov. 7, 1919)	361 Daly Ave	Ottawa, Ont.
MacKinnon, Alexander Henderson		Charlottetown, P.E.I.
MacMahon, Hugh Babington A.	270 Huron St	London, Ont.
Marks, Bernard	78 St. Famille St	Montreal, Que.
Meunier, J. R. S.	471 Durocher St	Outremont, Que.
Miller, Gordon McKenzie		Napanee, Ont.
*Minty, R. F.	645 Grosvenor Ave	Westmount, Que.
Morris, Victor W.		Summerside, P.E.I.
Mott, John Alwin	150 Florence St	Ottawa, Ont.
Mullen, Louis Wilfred	58 Cumberland St	Charlottetown, P.E.I.
Munro, James Esmond		Pembroke, Ont.
*Murray, Alex. Durand		Fort Frances, Ont.
Nichol, Gordon Hart Grieve		Picton, Ont.
Nichol, John Moore	1402 McRae Ave	Vancouver, B.C.
O'Brien, Edward Francis	319 Waverly St	Ottawa, Ont.
Pepin, Arthur H.		Shefford Mountain, Que.
Phillips, Archie Lovell	228 Esplanade Ave	Montreal, Que.

*Partial.

Name	Street Address	City or Town
Rann, Bennie	688 Cadieux St	Montreal, Que.
Reid, Leonard Gillespie	275 Drummond St	Montreal, Que.
Richter, William Harold	123 Russell Ave	Ottawa, Ont.
Riley, Richard C	393 Wellington Cres	Winnipeg, Man.
Samit, Lawrence	298 Pine Ave. W	Montreal, Que.
Shea, William Michael	226 St. Martin St	Montreal, Que.
Shecter, Max	1052 Cadieux St	Montreal, Que.
Simpson, James Ross		Dundas, Ont.
Skelton, Hugh Miller	Hotel Bretton Hall	New York, N.Y.
Small, Richard Macpherson B.	150 Laurier Ave. W	Ottawa, Ont.
Smith, Edgar Donald	Roseberry Place	St. Thomas, Ont.
Smith, Percy Guildford	26 Seely St	St. John, N.B.
Snyder, Clive		St. Jacob's, Ont.
Steine, Mitchell	819 University St	Montreal, Que.
Stuart-Roussac, John Augustus	Ivy Bank, Liberton	Midlothian, Scotland.
Taylor, Samuel Robertson	107 Cote St. Antoine Rd	Westmount, Que.
Tomalin, Humphrey Ridley	Hazel Glen	Sanderstead, Surrey, England.
Trenholme, Charles Reginald	36 Simpson St	Montreal, Que.
Tyler, Albert John	159 Vendome Ave	Montreal, Que.
Usher, Peter	1509 Jeanne Mance St	Montreal, Que.
Wallace, Norman Harold	610 Carleton Ave	Westmount, Que.
Webster, John Clarence		Shediac, N.B.
Whittall, Albert Frank	544 Roslyn Ave	Westmount, Que.
Wilson, Clifford Parnell	Summit Ave	Sault Ste. Marie, Ont.
Wilson, Donald Gordon	Box 96	Truro, N.S.
Wilson, Lawrence Maurice	765 Sherbrooke St. W	Montreal, Que.
Windatt, Richard Donaldson	657 Wellington Cres	Winnipeg, Man.

SECOND YEAR

Blackman, Israel	7 Church St	Montreal, Que.
Dougall, Greta Ethel	1098 Greene Ave	Westmount, Que.
Friedman, Norman H	802 Dorchester St. W	Montreal, Que.
Johnson, Arthur Wood	P.O. Box 1182	St. John's, Nfld.
Kellnor, Barnard Louis	458 Elm Ave	Westmount, Que.
Laffoley Paul Richard	735 Upper Belmont Ave	Westmount, Que.
Lefkowitz, Abe	773 City Hall Ave	Montreal, Que.
O'Meara, Robert Stewart	1621 Hutchison St	Montreal, Que.
Rutherford, John Bulmer	109 Cote St. Antoine Rd	Montreal, Que.
Rutherford, William King	467 Mt. Pleasant Ave	Westmount, Que.
Shapira, Joshua	780 Notre Dame St. W	Montreal, Que.
Shaw, George Ffolliott W		St. Andrew's East, Que.
Werry, Wilfrid Watson	650 Laval Ave	Montreal, Que.

THIRD YEAR

Antliff, William Shaw	41 St. Mark St	Montreal, Que.
Badian, Alan Maurice	2210 St. Urbain St	Montreal, Que.
Burland, G. Harold	25 Linden Terrace	Ottawa, Ont.
Glickman, Bernard	328 Redfern Ave	Westmount, Que.
*Goulet, Donat		St. Georges, Que.
Levitt, Moses	149 Hutchison St	Montreal, Que.
McDonald, Findlay Murdoch		Spring Hill, Que.
Masson, Paul Alfred	29 Quinn Ave	Longueuil, Que.
Shapira, William	780 Notre Dame St. W	Montreal, Que.
Wetstein, Harris	306 Grosvenor Ave	Westmount, Que.

*Partial.

DEPARTMENT OF MUSIC

Proceeding to the Degree of Mus. Bac.

FIRST YEAR

Aylen, Dorothea
Aylen, Lois
Cameron, Elizabeth W.
Durieux, André
Macdonald, Flora M.
Shearwood, Grace

SECOND YEAR

MacKenzie, Lillian

THIRD YEAR

Campbell, Olive
Katz, Eddie
Walker, Mrs. Ella

Proceeding to the Diploma of Licentiate

FIRST YEAR

Asner, Esther
Cox, Eleanor
Graydon, Lillian
Huff, Marion
Miller, Anna
Smith, Edna
Stott, Doris

SECOND YEAR

Black, Dora
Fletcher, Marion
Leach, Hazel
McMartin, Edith
Mills, Evelyn
Shapiro, Evelyn
Toker, Rebecca
Young, Abigail

THIRD YEAR

Anderson, Harold
Burrell, Irene
Lord, Dorothy P
Milston, Sophie
Sauer, Ruth
Benoit, Viola

Senior Partial Students

Abreu, Raphael C.
Barrett, Loza
Barwick, Ruth
Bennett, Donald
Bernard, Marguerite
Birkett, Winifred L.
Blachford, Marjorie A.
Bramson, Sylvia
Brewster, Conrad
Buck, Ruth C.
Clark, Esther
Cliffe, Constance
Cole, Matilda
Delagneau, A. L.
Dwyer, Madge
Feigenbaum, Etta
Foster, Eileen
Frank, Esther
Freedman, Leon
Fulkerson, Mrs. Z. R.
Gagnon, Irene
Gardiner, Mrs. F. E.
Gillham, Doreen
Gittleson, Gertrude
Goldsworth, Dorothy
Goubjila, Theodore
Grigg, Mildred
Harris, Annie
Hogg, Helen K.
Howard, Marguerite
Isard, Mrs. F. S.
Jaillet, Mary A.
Jameson, Natalie
Johnson, Edith M.
Keegan, Emily
Klein, Rose
Lamplough, Ethel
Lane, Mabel
Lutton, Dorothy
McDonald, Rose
Mace, Ruth
Mallison, Elizabeth
Mann, Audrey
Mann, Dorothy
Marks, Annie
Marks, Bernard
Martin, Jessie
Molson, C. J.
Ogilvie, Marion
Palmer, Adele
Pena, Irene
Percival, Lillian
Percival, Muriel
Perry, Evelyn
Peterson, Helene
Phelps, Roberta
Pinsler, Etta
Pitman, Mabel
Pope, Marjorie
Quint, Deborah
Rabinovitch, Freda
Read, Audrey
Reichling, E. G.
Roche, Harold
Rowland, Margaret
Rose, Rosalie
Rothschild, David
Russel, C. M.
Scane, Marjorie
Sherrard, Edwin
Shuffman, Louis
Silcock, Marjorie
Slack, Zerada
Stuart, Eleanor
Tarlton, Lillias
Tait, Wilma
Tremblay, Gertrude
Watson, Nora

FACULTY OF APPLIED SCIENCE

FIRST YEAR

NAME	STREET ADDRESS	CITY OR TOWN
Abbott-Smith, Henry Bancroft	10 Bellevue Ave	Montreal, Que.
Adams, Albert Oliver	Box 59	Bowesville, Ont.
Allan, Douglas Hood	421 Roslyn Ave	Westmount, Que.
Allan, John Maynes	P.O. Box 650	Halifax, N.S.
Ambridge, Douglas White	399 Clarke Ave	Westmount, Que.
Amos, Pierre Charles (Arch.)	592 Riverfront	Lachine, Que.
Anderson, Robert B	4484 Western Ave	Westmount, Que.
Antliff, James Cooper	41 St. Mark St	Montreal, Que.
Armstrong, Arnold Victor	845 Oxenden Ave	Montreal, Que.
Baillie, Donald Arthur	513 Roslyn Ave	Westmount, Que.
Ball, Gordon Jerome		Magog, Que.
Baxter, Warren Phelps	1 Parkside St	Montreal West, Que.
Bernier, Lucien	1153 St. Hubert St	Montreal, Que.
Berry, Charles Frederick	35 Blv'd Gouin	Cartierville, Que.
Bieler, Jacques Louis	98 Columbia Ave	Westmount, Que.
Binns, George Frederick	542 Notre Dame de Grace Ave	Montreal, Que.
Bishop, Eric Gordon	Greenspond	Bonavista Bay, Nfld.
Bishop, John Gordon		Cupids, Nfld.
Blackall, John Fenwick W		St. John's, Nfld.
Bleau, Alphonse	133-1st Avenue	Maisonneuve, Que.
Bloomfield, Jacob	1168 Cadieux St	Montreal, Que.
Bouillon, Ernest Linden (Arch.)		Paspebiac, Que.
Bradley, John		Hamilton, Ont.
Bradshaw, Frederick Wykeham	c/o Henry S. King & Co., 9 Pall Mall	London, England.
Bradshaw, Gordon Rothwell	102 Silica St	Nelson, B.C.
Braithwaite, Ethan Edward	36 Quebec St	Sherbrooke, Que.
Brault, Magloire Joseph		Cranbrook, B.C.
Brisbane, William Gordon	452 Strathcona Ave	Westmount, Que.
Brodeur, Jean Charles	229 Chapel St	Ottawa, Ont.
Brodeur, Joseph Paul	1097 St. Denis St	Montreal, Que.
Brough, Frank S	48 Windsor Ave	Westmount, Que.
Brumell, John Hunter		Buckingham, Que.
Buchan, Huntly Henderson	32 Seymour Ave	Montreal, Que.
Buffam, Basil Scott Whyte		Perth, Ont.
Buller, Francis Hamilton	147 Bishop St	Montreal, Que.
Buraschi, Charles F	Box No. 1,007	Lima, Peru, S.A.
Caldwell, Charles Edward	Brigus	Conception Bay, Nfld.
Campbell, Arthur Tremaine	Arthur St	Truro, N.S.
Campbell, Donald H	371 Grosvenor Ave	Westmount, Que.
Carpenter, Thayer Robinson		Lachute Mills, Que.
Champion, Cecil Hugh		Chateauguay Basin, Que.
Chisholm, Joseph Donald		Antigonish, N.S.
Clark, Howard Lingley	95 Addiscombe Rd	Croydon, England.
Clarke, T. Esmonde	287 Sherbrooke St	Montreal, Que.
Clement, Alexandre	1129 St. Hubert St	Montreal, Que.
Cloutier, J. Narcisse (Withdrew early in Session)	1248 Cote des Neiges	Montreal, Que.
Cooney, George Edward	250 Cooper St	Ottawa, Ont.
Cooper, Hugh Christopher D (Arch.)		Petherton, Truro, Eng.
Cooper, Paul Emerson	218 Eastern Promenade	Portland, Me.
Cope, Edward Selby	460 Wood Ave	Westmount, Que.
Cornell, Clarence E		Amherst, N.S.
Corriveau, Harold Alphonse	1515 Mance St	Montreal, Que.

Name	Street Address	City or Town
Cox, Leonard Gordon	305 First Ave.	Ottawa, Ont.
Craik, Oliver Stanley		Melbourne, Que.
Crain, George Edward	285 Clemow Ave.	Ottawa, Ont.
Cregeen, Kenneth T	Sun Life Bldg.	Montreal, Que.
Cross, George Esplin	369 Metcalfe Ave.	Westmount, Que.
Culpeper, Bernard Armel	337 Durocher Ave.	Outremont, Que.
Currier, Joseph H.	36 Cooper St.	Ottawa, Ont.
Cuttle, William Gordon	769 Cote St. Antoine Rd.	Montreal, Que.
Dalrymple, Edward Ross	617 Carlton Ave.	Westmount, Que.
Davidson, Stanley Cecil Kerr	413 Metcalfe Ave.	Westmount, Que.
Davidson, William McCartney	708 Rosedale Crescent	Calgary, Alta.
Davies, Clarence Bernard	203 St. Joseph Boulevard	Hull, Que.
Davis, William Wallace	37 Arthur St.	Ottawa, Ont.
Denis, Bertrand Tyrrell	130 Maple Ave.	Quebec, Que.
de Salaberry, Bernard	245 Laurier Ave. E.	Ottawa, Ont.
Desbarats, Harrisson Jean	757 University St.	Montreal, Que.
Desloover, Raymond	267 Peel St.	Montreal, Que.
Dickie, Alexander Douglas	853 Dorchester St. W.	Montreal, Que.
Dickinson, Albert Godfrey		Duncan, B.C.
Dormer, William John Smylie		Lennoxville, Que.
Downs, Henry William		Lennoxville, Que.
Dupuis, René		Pike River, Que.
Eadie, Thomas Wardrope	1321 Wellington St.	Ottawa, Ont.
Echlin, Edward M.	196 Elgin Street	Ottawa, Ont.
Elkington, Gerald Erlam	Oak Park	Duncan, B.C.
Elvidge, George Edward		Vankleek Hill, Ont.
Emo, Harold William	4034 Dorchester St.	Westmount, Que.
Evans, Charles Durward	19 Claire Fontaine St.	Quebec, Que.
Fagan, James Wilfrid	1899b St. Catherine St. E.	Montreal, Que.
Faith, Willard V.		Winchester, Ont.
Finlayson, Harold Musgrave	2403 Hutchison St.	Montreal, Que.
Finley, Frederick Lovell	273 Bishop St.	Montreal, Que.
Fitzsimons, Norton Thomas	148 Milton St.	Montreal, Que.
Fleming, Canmore Drake	217 Sandwich St. W.	Windsor, Ont.
Foss, Donald Burrowes	1 Bellevue Ave.	Sherbrooke, Que.
Foss, Lindsay Justin	660 Union Ave.	Montreal, Que.
Foster, Frederick Lawton	19 Horsefield St.	St. John, N.B.
Gamble, Robert Bruce	315 Cooper St.	Ottawa, Ont.
Gaudet, Gaston	276 Mayfair Ave.	Montreal, Que.
Gauthier, Maurice	2412 Park Ave.	Montreal, Que.
Gegg, Richard Conrad	"Fareham," Broadwood Road	Hong Kong, China.
Gilbert, Edgar Valentine	443 Bleury St.	Montreal, Que.
Goldberg, Harry Julius	673 St. Lawrence Blvd.	Montreal, Que.
Goldstein, Hyman	1236 St. Urbain St.	Montreal, Que.
Gordon, Harold Cowan Morton	Box 117	Glace Bay, N.S.
Graham, George Patterson	P.O. Box 2	New Glasgow, N.S.
Grant, Grainger Stewart	Government House	Halifax, N.S.
Griffith, Thomas Raymond	141 Hutchison St.	Montreal, Que.
*Hall, Thomas Malcolm (Withdrew Jan., 1920)	84 Brock Ave.	Montreal West, Que.
Hambly, Frank Yates		Buckingham, Que.
Hamilton, Geoffrey John	287 Mountain St.	Montreal, Que.
Harbert, Edward Thomas	365 Melrose Ave.	Montreal, Que.
Harling, Frank Norman	205 Westmount Blvd.	Westmount, Que.
Harvey, Leitrim Eric Lester	Canadian Bank of Commerce, Crescent St.	Montreal, Que.
Held, Sam	140 Laurier Ave. W.	Montreal, Que.
Herman, Reuben	1094 St. Urbain St.	Montreal, Que.
Holden, John Hastie	321 Kensington Ave.	Westmount, Que.
*Holland, Edwin	5 Regent St., Leamington Spa	Warwickshire, Eng.

*Partial.

Name	Street Address	City or Town
Horsey, Richard Mountstephen	1729 De la Roche St.	Montreal, Que.
Hunten, Kenneth William		Johnville, Que.
Hutchison, Harold Bruce	35 Rushbrook St.	Montreal, Que.
Jackson, Lawrence Wright	447 Daly Ave.	Ottawa, Ont.
Jacobs, Solomon	30 Lincoln Ave.	Montreal, Que.
James, William Albert	1620 De la Roche St.	Montreal, Que.
Jerrom, Cyril Lewis		Cornwall, Ont.
Johnson, William James	100, 44th Ave.	Lachine, Que.
Katz, Morris	49 Duluth Ave. W.	Montreal, Que.
Kennedy, Neil	930, 1st Ave, West	Owen Sound, Ont.
Kingan, Gordon Herron	62 Park Ave.	Montreal, Que.
Kotsonas, Demetrius H.	1100 Ontario St. E.	Montreal, Que.
Kyle, Edward Henry	276 Pine Ave.	Montreal, Que.
Laidley, Wendell Howard	1850 Park Ave.	Montreal, Que.
Larose, Marcel Jules	212 Prud'homme Ave.	Montreal, Que.
Lawrence, Frederick S.	303 Old Orchard Ave.	Montreal, Que.
Layne, John Graham	Penrith, Christchurch	Barbados, B.W.I.
Lea, Harry Windsor		Victoria, P.E.I.
LeBaron, Karl Shurtliff	31 London St.	Sherbrooke, Que.
Legg, Roland Edward	1330 Bond St.	Victoria, B.C.
Leitch, Hugh J.	476 Strathcona Ave.	Westmount, Que.
Lemieux, Charles		Henryville, Que.
Lewis, Joseph	27 Augusta St.	Ottawa, Ont.
Liersch, Edward Norman	531 Grosvenor Ave.	Westmount, Que.
Livingstone, Arnold Clarence	963 Tupper St.	Montreal, Que.
Macaulay, Kenneth Douglas	Grove Apts., Lincoln Ave.	Montreal, Que.
*Macaulay, Thomas James (Arch.)	85 Queen St. W.	Guelph, Ont.
MacCallum, Alexander Patrick		Deloro, Ont.
McCaw, John Blacklock	4 High St.	Sherbrooke, Que.
McCracken, Elmer Gordon		Huntingdon, Que.
McDermott, David Edward	R.M.D. No. 1	Georgeville, Que.
McDonald, Somerled	272 Durocher Ave.	Outremont, Que.
Macduff, Albert (Arch.)	322 Selby St.	Westmount, Que.
McEwen, Daniel Wallace		Maxville, Ont.
McInnis, Joseph	405 West Hill Ave.	Montreal, Que.
McKindsey, Arthur Abbott (Withdrew Oct. 14, 1920)		Lennoxville, Que.
McKindsey, Gordon		Lennoxville, Que.
McKyes, Carlos Benvenuti	917 St. Urbain St.	Montreal, Que.
McLagan, Thomas Rodgie	429 Argyle Ave.	Westmount, Que.
MacLaren, Albert Roy		Buckingham, Que.
Maclaren, Alexander Barnet		Buckingham, Que.
MacLaren, James Norman		Buckingham, Que.
MacLeod, Alexander Norman (Arch.)	P.O. Box 14.	New Waterford, N.S.
MacLeod, David Sutherland	7 Euston St.	Charlottetown, P.E.I.
McMeans, Lendrum Edmund	40 Westgate	Winnipeg, Man.
McNaughton, Ronald Russel	R.M.D. No. 4	Victoria, B.C.
Macnutt, Erskine Keir		Malpeque, P.E.I.
Macpherson, Frank Randolph	12 Arnold Road	Kingston, Jamaica.
Mallison, H. Douglas	388 Wood Ave.	Westmount, Que.
Marcionelli, Pedro		Lima, Peru, S. Am.
Martin, Charles Kingdon	78 Bruce Ave.	Westmount, Que.
Martin, Harold A.	279a Regent Ave.	Montreal, Que.
Matheson, Arthur Marshall	69 Russell Ave.	Ottawa, Ont.
Mercier, Joseph Edward	54 Maple Ave.	Quebec, Que.
Mignault, Bert	54 Durocher St.	Montreal, Que.
Miller, Lloyd Lawrence		Hudson, Que.
Mills, Charles Perkins	67 Fifth Ave.	Ottawa, Ont.

*Partial.

Name	Street Address	City or Town
Moore, Arthur Louis Wurtele	Box 384	St. Johns, Que.
Moore, Reginald Arthur	252 Brunette St.	New Westminster, B.C.
Moran, Taylor Matthew	86 Carruthers Ave.	Ottawa, Ont.
Morin, Charles Auguste	2719 Christophe Colomb.	Montreal, Que.
Morrin, J. James	85 Esplanade Ave.	Montreal, Que.
Moseley, Paul Vanhorn		St. Hyacinthe, Que.
Mulkins, Reginald George	120 Lewis St.	Ottawa, Ont.
Mulligan, Claude Aylmer		Maniwaki, Que.
Munn, Wilfred Lockerby	4273 Dorchester St.	Westmount, Que.
Munro, David John Best	2299a Hutchison St.	Montreal, Que.
Munro, Gordon Hugh	555 Roslyn Ave.	Westmount, Que.
*Murphy, Edward Joseph O.	45 Central Chambers.	Saskatoon, Sask.
Murphy, Martin Payne	4322 St. Catherine St. W.	Westmount, Que.
Murray, John William	331 Elm Ave.	Westmount, Que.
Nutting, Bruce Powell	318 Cooper St.	Ottawa, Ont.
O'Brien, Charles Leonard (Arch.)	319 Waverley St.	Ottawa, Ont.
†O'Heir, Hugh Bingham	92 Wellington St. S.	Hamilton, Ont.
Olive, Gordon William	380 Lansdowne Ave.	Westmount, Que.
Oliver, Cuthbert Jack	129 Metcalfe St.	Montreal, Que.
Oliver, James Harold		Rockburn, Que.
O'Shea, Edward Sarsfield	228 Park Ave.	Montreal, Que.
Owens, Owen Norreys H. (Withdrew Jan. 1, 1920)	26 Summerhill Ave.	Montreal, Que.
Paradis, Antonio		Ancienne Lorette, Que.
Parker, John Bruce (Left Oct. 7, 1919)	2066 Retallack St.	Regina, Sask.
Parrott, Maurice Francis		Saltcoats, Sask.
Parsons, Frederick Errol L.	273 De l'Epée Ave.	Montreal, Que.
Paterson, A. Pierce Jr.,	92 Leinster St.	St. John, N.B.
Patterson, Thomas Bilton		Lumsden, Sask.
Patton, Hugh Bradford	2017 Mance St.	Montreal, Que.
Pelletier, René A.	122 St. Famille St.	Montreal, Que.
Peters, Arthur Wright	50 Chesterfield Ave.	Westmount, Que.
Peverley, Frederick Redley	210 Milton St.	Montreal, Que.
Plow, Gordon Locklin	523 Argyle Ave.	Westmount, Que.
Poulin, P. Eugene	151 Blvd. St. Joseph E.	Montreal, Que.
Powell, Allan Trew	12 Allan Place	Ottawa, Ont.
Powell, Fraser Edwin	52 Delaware Ave.	Ottawa, Ont.
Radley, Percy Edward	448 Riverdale Ave.	Ottawa, Ont.
Raginsky, Bernard	446 St. Hubert St.	Montreal, Que.
Raskin, Franz Joseph	439 Sherbrooke St. E.	Montreal, Que.
Read, Douglas Ellery	37 Melbourne St.	Sherbrooke, Que.
Reaper, Clarence Paul	1737 Esplanade Ave.	Montreal, Que.
Reid, Howard Edward		St. John, N.B.
Rhind, John	64 Bruce Ave.	Westmount, Que.
Robinson, Harold Forrest	422 Grosvenor Ave.	Westmount, Que.
Rochester, Bertram Cole	145 James St.	Ottawa, Ont.
Roquet, Leo Laurent	96 Chapel St.	Ottawa, Ont.
Rorke, Charles Burrell	1979 Hutchison St.	Montreal, Que.
Ross, Allan Evans	31 Bruce Ave.	Westmount, Que.
Ross, Malcolm Vaughan	4 Tache Ave.	Quebec, Que.
Roughsedge, John Haslam K.	40 First Avenue	Ottawa, Ont.
Ruel, James Rhodes (Withdrew Nov., 1919)	121 Westmount Blvd.	Westmount, Que.
Russell, Gordon Nelson	69 St. Matthew St.	Montreal, Que.
St. Germain, Paul	75 Park Ave.	Montreal, Que.
Scott, James McDonald	P.O. Box 14	Valleyfield, Que.
Scott, Lewis John		Grand Falls, Nfld.
Shabaz, Robert (Withdrew Oct., 1920)	1011 George St.	North Battleford, Sask.

*Partial. †Double Course.

Name	Street Address	City or Town
Shackell, Francis Ernest (Withdrew Jan., 1920)	491 St. Denis St.	Montreal, Que.
Shalinsky, Moses Hirsch (Withdrew Jan. 13th, 1920)	121 Dorchester St. W.	Montreal, Que.
Sherwood, Thomas Kilgore	437 Grosvenor Ave.	Westmount, Que.
Shier, Bruce Banks	859 Roslyn Ave.	Westmount, Que.
Simpson, James Catanach	10 Oldfield Ave.	Montreal, Que.
Simpson, Richard Landon	2381 Hutchison St.	Montreal, Que.
Smallhorn, Edward Thomas	4713 Western Ave.	Westmount, Que.
Smeaton, William Charles V.		Abbotsford, Que.
Smith, Archie Ewart	536 Louise Ave.	Brandon, Man.
Snyder, Earl		St. Jacobs, Ont.
Starr, Richard Peniston	51 Carleton St.	St. John, N.B.
Stephen, Gordon Robert	198 Belgrave Ave.	Montreal, Que.
Stethem, John Eric Holt	147 Westmount Blvd.	Westmount, Que.
Stirling, Laurie Brodie	38 St. Matthew St.	Montreal, Que.
Stone, Clarence E.		Magog, Que.
Streadwick, Ralph Danell S.	Chesham, Half-Way Tree.	Jamaica, B.W.I.
Strong, Allan Bryson (Arch.)	605 Roslyn Ave.	Westmount, Que.
Tallon, Joseph Andrew		Glenelm, Que.
Taschereau, Rogers Harwood	341 C. Kenniston Apts., Elgin Street	Ottawa, Ont.
Taylor, Allan Frater	62 St. Clair Ave. W.	Toronto, Ont.
Taylor, Clarence Wesley		Carberry, Man.
Taylor, Morrison Barns	54 Sussex Ave.	Toronto, Ont.
Terrance, Emmett Howard	538King Edward Ave.	Ottawa, Ont.
Timmins, Leo Henry	99 Gordon Crescent	Westmount, Que.
*Timmins, Noah A (Withdrew Dec., 1919)	99 Gordon Crescent	Westmount, Que.
Timmis, Harold Gordon	416 West 122nd St.	New York, N.Y.
Tomlinson, Horace Otto	808, 7th Ave.	West Calgary, Alta.
Toole, Francis James	1 Orleans Rd., Hornsey Lane	Highgate, London, N. 19, England.
Torrance, James Ferrier	660 Victoria Ave.	Westmount, Que.
Turnbull, Andrew Rutherford	236 North Main St.	Welland, Ont.
Turnbull, Kenneth Hatheway	Montague Mansions, York and Baker Sts.	London, England.
Velasco, (Marmanillo) Edward		Cuzco, Peru, S. Am.
Wall, Gilbert (Withdrew Jan., 1920)	148 Cote St. Antoine Rd.	Westmount, Que.
Wayland, Raymond Joseph (Withdrew, Jan., 1920)	1301 St. Viateur Ave.	Outremont, Que.
Webster, Robert Chilion Peter	196 Metcalfe St.	Ottawa, Ont.
White, Charles Percy		Sussex, N.B.
White, Gerald Leland	Wortley Road	London, Ont.
Whittemore, Carl Raymond		Trail, B.C.
Willis, Irwin Davidson	162 Mansfield St.	Montreal, Que.
Wilson, Harley	455 Durocher Ave.	Outremont, Que.
Wilson, Percy Roy (Arch.)	Summit Ave.	Sault Ste. Marie, Ont.
Winter, Frederick Roberts	596 Victoria Ave.	Westmount, Que.
Wood, Robert	863a Durocher Ave.	Outremont, Que.
Wright, John Edwin (Withdrew Jan., 1920)	103 Emerald St. S.	Hamilton, Ont.
Wylde, Charles Napier	101 Crescent St.	Montreal, Que.
Yorston, Frederic Harrison	1948 Park Ave.	Montreal, Que.
Zybach, Jack Melchior	25 Bender Hill	Niagara Falls, Ont.

*Partial.

SECOND YEAR

Name	Street Address	City or Town
Ahern, Arthur Weston	8 St. Denis Ave	Quebec, Que.
Anderson, Dan	289 Richmond St	Charlottetown, P.E.I.
Armstrong, Lawrence Henry	845 Oxenden Ave	Montreal, Que.
Banfill, Harold Leroy	R.R. No. 3	Richmond, Que.
Bastable, Ross Waller	96, 44th Avenue	Lachine, Que.
Benett, Charles Morgan	7 Dufferin Ave	Brantford, Ont.
Biggar, Percival Elliott	The Roxborough	Ottawa, Ont.
Binmore, George Bedell	148 Northcliffe Ave	Montreal, Que.
Bissell, Harold Rudolph	23 Park Ave	Toronto, Que.
Bonneville, Sydney	455 Besserer St	Ottawa, Ont.
Boronow, Paul	469 Victoria Ave	Westmount, Que.
Bradfield, John Ross		Morrisburg, Ont.
Brooks, Charles Lennox	4025 Dorchester St	Montreal, Que.
Brown, Edmund Vere	12 Kingsway	Winnipeg, Man.
Brown, George Basil	614 Sherbrooke St. W,	Montreal, Que.
Brown, Lawrence Elliott (Arch.)	149 Carling Ave	Ottawa, Ont.
Buchanan, John Edmond	477 Cote St. Luke Rd	Montreal, Que.
Bush, Harold Frederick	558 Bay St	Ottawa, Ont.
Carlyle, Arthur William	The Roxborough Apts	Ottawa, Ont.
Carson, Cecil Edward	465 Strathcona Ave	Westmount, Que.
Cartwright, George Herbert	771 University St	Montreal, Que.
Chorney, Melvin M	994 Cadieux St	Montreal, Que.
Clarke, Edward Lawrence	202 Harvard Ave	Montreal, Que.
Clark, George Silas	R.M.D. 6	Lachute, Que.
Conner, Walter Leisening (Left early in Session)		Rydal, Pa.
Coughlan, Gerald Dromede	351 Bishop St	Montreal, Que.
Cousineau, Charles A	2733a Drolet St	Montreal, Que.
Crawford, Robert Eric Anderson	410 Mance St	Montreal, Que.
Cromwell, Alexander Ross		Cookshire, Que.
Dand, Raymond Murray		New Glasgow, N.S.
*Davis, Sydney Herbert	157 Pretoria Ave	Ottawa, Ont.
Desbarats, George Henry	330 Wilbrod St	Ottawa, Ont.
Dineen, Matthew Henry	460 St. Antoine St	Montreal, Que.
Dobson, Robert Munro	51 Nelson Ave	Outremont, Que.
Drummond, Ross Newton	2695 Rosemont Blvd	Montreal, Que.
Duff, Edgar C		Carbonear, Nfld.
Eager, Norman H. A	4628 St. Catherine St	Westmount, Que.
*Elliott, Gerald Burton	385 Lansdowne Ave	Westmount, Que.
Evans, William	791 University St	Montreal, Que.
Farquharson, John Spencer	Retreat	Constant Spring P.O., Jamaica, B.W.I.
Fisk, George Harold	166 Drummond St	Montreal, Que.
Ford, Robert	15 Craig St	Ottawa, Ont.
Foss, Roy Holmes	1 Bellevue Ave	Sherbrooke, Que.
Foster, Stanley Campbell	2236 Mance St	Montreal, Que.
Fotheringham, John Popham	824 Echo Drive	Ottawa, Ont.
Fraser, Andrew Stockwell	380 Elgin St	Ottawa, Ont.
Friedman, Victor Edward	322 Elm Ave	Westmount, Que.
Fry, John Dawson	66 McTavish St	Montreal, Que.
Gaboury, Maurice Albert	324a St. Catherine St.W.	Montreal, Que.
Glen, Alexander F		Ste. Agathe des Monts, Que.
Gnaedinger, Adrian Leslie	465 Lansdowne Ave	Westmount, Que.
Gnaedinger, Paul Ernest	4170 Dorchester St. W.	Westmount, Que.
Gooch, Harold C	998 Dorchester St	Montreal, Que.
Gordon, George Blair	1018 Queen Mary Road	Montreal, Que.

*Partial.

Name	Street Address	City or Town
Grant, Ralph Glencoe	73 Ash Ave	Montreal, Que.
Gravel, Emile (Left early in Session)		Etchemin Bridge, Que.
Gurman, Israel T. I	757 St. Dominique St	Montreal, Que.
Hamel, J. H. N. Albert	50 Notre Dame St	Three Rivers, Que.
Hamilton, Herbert J	421 Metcalfe Ave	Westmount, Que.
Hamilton, Philip Dawson P	c/o U.S. Smelting Co	Midvale, Utah, U.S.A.
Hanington, Francis Carleton	Sidenham Court, Charlotte Street	Ottawa, Ont.
*Harling, Frank Norman	205 Westmount Blvd	Westmount, Que.
Harrison, Donald Ranald		Tamworth, Ont.
Hastings, Walter H	2030 Broad St	Regina, Sask.
Holcomb, Harcourt Edward		Ste. Anne de Bellevue, Que.
Holmes, Everett Eric	353 Grosvenor Ave	Westmount, Que.
Holt, Ernest William	291 Old Orchard Ave	Montreal, Que.
Hulburd, William Chauncey (Left Oct. 7th, 1919)		Cowansville, Que.
Humes, Harold Louis	4288 Western Ave	Westmount, Que.
Hunter, Piercy Starkey (Arch.)	2152 Park Ave	Montreal, Que.
Jandrew, Cyrus Bertram	43 McLaren St	Ottawa, Ont.
Jenks, William Stuart	42 Edward St	Halifax, N.S.
Johnson, Edwin Lewis	751 Hartland Ave	Outremont, Que.
Kerr, George Elliott		Fernie, B.C.
King, John David	279 Marquette St	Montreal, Que.
Kirsh, Harry	400 West Hill Ave	Montreal, Que.
Kyle, Donald Gordon	55 Windsor Ave	Westmount, Que.
Lawrence, Archibald Rowley	350 Driveway	Ottawa, Ont.
Loebel, John Mayer	3 St. Matthew St	Montreal, Que.
Lorin, Louis G	2011 Waverly St	Montreal, Que.
Luke, Morley Corbus (Arch.)	41 Brock Ave. N	Montreal West, Que.
Lyall, Douglas Creswell	18 MacGregor St	Montreal, Que.
McCallum, Fred Lee		Welland, Ont.
McDougall, Donald Hamilton	22 Cote des Neiges Rd	Montreal, Que.
MacGlashan, Lionel Creighton		Vaudreuil Sta., Que.
MacGregor, Roderick Archibald	George Street	New Glasgow, N.S.
MacKeen, David Whitney	Maplewood	Halifax, N.S.
Mackenzie, George Home	4561 Walnut St	Kansas City, Mo.
Mackenzie, William Bigelow (Left early in Session)	91 Steadman St	Moncton, N.B.
McLennan, Gordon Roderick	192, 5th Avenue	Ottawa, Ont.
Macnaughton, Moray Fraser	26 Burton Ave	Westmount, Que.
MacNider, Clarence Henry	38 Burton Ave	Westmount, Que.
Macrae, Donald	245 Melville Ave	Westmount, Que.
McTaggart, George Duncan		Clinton, Ont.
Macoun, John Macoun	Experimental Farm	Ottawa, Ont.
Martin, Kenneth Beriah	407 Metcalfe Ave	Westmount, Que.
Messenger, William Aubrey	15 Tower Ave	Montreal, Que.
Midgley, Russell Edward	113 Northcliffe Ave	Montreal, Que.
Mitchell, J. Murray	4630 St. Catherine St	Westmount, Que.
Monsarrat, Charles Alexander L (Left Jan. 9th, 1920)		Rivière du Loup, Que.
Morris, Robert Schofield (Arch.)	264 McNab St. S	Hamilton, Ont.
Morrisette, Gordon Joseph	40 Frontenac St	Sherbrooke, Que.
Morrison, David Reid	26 Somerville Ave	Montreal, Que.
Mott, Harold Edgar	139 Middle Gate	Winnipeg, Man.

*Partial.

NAME	STREET ADDRESS	CITY OR TOWN
Munro, William Cauldwell	251 Wilson Ave	Montreal, Que.
Murphy, Alexander Gordon Silcox	620 Victoria Ave	Westmount, Que.
Murphy, Edward Justin	366 Fifth Ave	New York, N.Y.
*Murray, Alexander Durand (Arch.)		Fort Francis, Ont.
Nesbitt, Martin Becerra	Rio de Plata	Guazapares, Chihuahua, Mexico.
Newman, Percy Cecil	198 Lasalle Road	Ville Lasalle, Que.
Normandin, Romeo Armand	347 Maplewood Ave	Montreal, Que.
Notman, James Geoffrey	4193 Avenue Road	Westmount, Que.
Ouellette, Paul	18 Ainsley Ave	Outremont, Que.
Parker, Charles Alexander	8 Tormey Street	Ottawa, Ont.
Parsons, Eric Allan	4251 Dorchester St. W.	Montreal, Que.
Perry, Alfred Leslie (Arch.)	340 Oxford Ave	Montreal, Que.
Pevzner, Isidore	86 Laurier Ave. W.	Montreal, Que.
Pfeiffer, Walter Moodie	6 Stanislas St.	Quebec, Que.
Quinlan, James T.	323 Redfern Ave	Westmount, Que.
Ramsay, Kenneth MacPherson	6 St. Famille St.	Quebec, Que.
Rankin, William Donald, Jr		Woodstock, N.B.
Reed, Gordon		St. Andrews, N.B.
Reeve, Charles Lailey	284 De L'Epee Ave	Outremont, Que
Reid, Eric Arnold	330 Old Orchard Ave	Montreal, Que.
Reiffenstein, John Christopher	459 Elm Ave	Westmount, Que.
Renouf, Edward Trudeau	718 Pine Ave. W.	Montreal, Que.
Root, Stephen Eastman	4219 Western Ave	Westmount, Que.
Ross, David Roy		Truro, N.S.
Ross, James Hargrave Drummond	26 McTavish St	Montreal, Que.
Salter, Fred Cumberland	4474 St. Catherine St	Westmount, Que.
Schleifstein, Montague L.	1049 St. Urbain St.	Montreal, Que.
Scott, Paul Stuart	14 Seymour Ave	Montreal, Que.
Sherrard, Edwin Atwater	1 Forden Ave	Westmount, Que.
Simons, John Joseph		Michel, B.C.
Spratt, Maynard James	307 Sunnyside Ave	Ottawa, Ont.
Taber, Harold E.		Carleton Place, Ont.
Tatley, David Lambert	49 Belvedere Road	Westmount, Que.
Taylor, Edward Plunket	201 Augusta St.	Ottawa, Ont.
Taylor, John Ellis	301 Charlotte St.	St. John West, N.B.
Thompson, Cecil E.	157 Frank St.	Ottawa, Ont.
Tucker, Bryant Burgess	Kings Nympton Rectory	Chulmleigh, N. Devon, England.
Turley, Gerald Aloysius		Frankford, Ont.
Turnbull, Rupert Davidson		Rothesay, N.B.
Turton, Victor Herbert	594 Lansdowne Ave	Westmount, Que.
Wain, Eric James	42 St. Denis St	St. Lambert, Que.
Wait, Eric Holloway	319 Prince Arthur St. W.	Montreal, Que.
Watt, Leslie Alexander (Arch.)		Ste. Anne de Bellevue, Que.
Weldon, Thomas Herbert	636 Dorchester St. W.	Montreal, Que.
Wheeler, Frederick Haskell		St. Jovite Sta., Que.
Wiggs, Henry Ross (Arch.)	Hessel Grove, St. Feye Rd.	Quebec, Que.
Wilder, Hartland Bates	680 Roslyn Ave	Westmount, Que.
Williams, Archibald Lyle	300 Prince Arthur St. W.	Montreal, Que.
Wilson, Hugh Allen	617 Belmont Ave	Westmount, Que.
*Wilson, James Moir	538 St. Joseph St	Lachine, Que.

*Partial.

Name	Street Address	City or Town
Wilson, Selwyn Hamilton	173 Cooper St	Ottawa, Ont.
Wonham, Walter Richard	336 Wood Avenue	Westmount, Que.
Woolward, Charles Desmond	c/o Colonial Bank	Rosean, Dominica, B.W.I.
Wright, W. Stanley	435 Elm Ave. W	Westmount, Que.

THIRD YEAR.

Abbott-Smith, Reginald Bancroft	10 Bellevue Ave	Westmount, Que.
Acton, Harold Joseph	4837 St. Catherine St	Westmount, Que.
Anderson, Alexander Gordon		Buckingham, Que.
*Armstrong, Paul Frederic	46 Victoria St	Montreal.
Bain, George William		Lachute, Que.
Bethune, John S.T	627 Dorchester St. W	Montreal, Que.
Bishop, Trenholm Allen Gill	9 Summerhill Ave	Montreal, Que.
*Boulian, Job Ivan	497 Notre Dame St	St. Lambert, Que.
Brandes, Emmanuel		Gurahumora, Roumania.
Brault, Paul George Adrien	405 Durocher Ave	Outremont, Que.
Brow, James B	88 Upper Prince St	Charlottetown, P.E.I
Calkin, Darrell Lorraine		Kentville, N.S.
Cambron, Adrien	40 Council St	Sherbrooke, Que.
Cameron, John	Windsor Hotel	St. Johns, Que.
Canning, Dow Vernon	132 Vendome Ave	Montreal, Que.
Challenger, James Othneil		St. Kitts, B.W.I.
Clerk, Ronzo Douglas	4101 Sherbrooke St	Westmount, Que.
Clossey, Emile Guillaume	400 Roy Street E	Montreal, Que.
Cloutier, George Edwin Joseph	2339 Park Avenue	Montreal, Que.
Cockfield, Alfred Ernest	760 Wilder Ave	Outremont, Que.
Cohen, Joseph	249 Bank St	Ottawa, Ont.
Congleton (Lord), John Brooke	28 Green St	London, W1, England.
Copping, Allan Blythe	504 Lansdowne Ave	Westmount, Que.
Croft, Carman Milward		Digby, N.S.
Cromwell, Harry Roy	489 Melrose Ave	Montreal, Que.
Cuddy, John Michael	269 Mance St	Montreal, Que.
Cunningham, Frederick James	299 McLeod St	Ottawa, Ont.
Davis, Samuel	c/o Royal Bank of Can	Stanley St., Montreal.
Dewar, Charles Leonard	184 Waverley St	Ottawa, Ont.
Durant, N. Morton		Parrsboro, N.S.
Eaton, Milton		Treherne, Man.
Farmer, Rupert Whitley	Oughterson	St. Philip, Barbados, B.W.I.
Farnsworth, Arthur Leslie		Cookshire, Que.
Fellows, Howard	Box 14	Stellarton, N.S.
Ferguson, John Alexander	Box 576	Nelson, B.C.
Forbes, Karl	807 Shuter St	Montreal, Que.
Fortin, Gaston Lalonde	191 Mance St	Montreal, Que.
Fowler, Wallace Wadsworth	41 Arlington Ave	Westmount, Que.
Gardner, John George	106 St. Matthew St	Montreal, Que.
Gauthier, Paul Gilles	1550 Mance St	Montreal, Que.
Gibbs, John Hodgson		Buckingham, Que.
Giles, George Reid		Lachute, Que.
Gliddon, William Gilbert C	430 Nelson St	Ottawa, Ont.
Goodman, Charles Davis (Arch.)	1617 Jeanne Mance St	Montreal, Que.
Goodwin, Cassels Dunbar		Baie Verte, N.B.
Gould, Walter Stilson	174 East St	London, Ont.
Green, Frederick Gordon	161 Charlotte St	St. John, N.B.
*Grondin, Leon Joseph (Arch.)	31 Mayor St	Montreal, Que.

*Partial.

NAME	STREET ADDRESS	CITY OR TOWN
Gualtieri, Santo		Figline, Vigliaturo, Italy.
Hall, John G		Cornwall, Ont.
Hannan, James	2 Home Place	Irvington, N.Y
Harris, Clifford Norton	73 Willibrord Ave	Verdun, Que.
Harrison, Donald Ranald		Tamworth, Ont.
Henderson, Conway Hemsley D.	52 Rosemount Ave.	Westmount, Que
Hill, Stanley Clayton H		Richmond, Que.
Hulburd, William Chauncey (Withdrew Oct., 1919.)		Cowansville, Que
Hurtubise, Leo	781 Jeanne d'Arc St	Montreal, Que.
Hyndman, Edward Douglas	45 Montreal St.	Sherbrooke, Que.
Irving, George Ewart Logan	P.O. Box 152	Moncton, N.B.
Jackson, Carl Henry	2127 Jeanne Mance St	Montreal, Que.
Jelly, Calvin Sherwood		Carleton Place, Ont.
Jenckes, Kennan Brooks	18 Quebec St	Sherbrooke, Que.
Johnston, Harry Wyatt	25 Bellingham Road	Outremont, Que.
Jordan, Herbert Scott	446 Mount Stephen Ave.	Westmount, Que.
Jue, Peter B	336 Lagauchetiere St. W.	Montreal, Que.
Kay, Stuart Evans	41 Lorne Ave	Montreal, Que.
Kennedy, Charles Laurence		Parkdale, Man.
Kirby, Guy Hurlston		Cookshire, Que.
Langstroth, Cecil Craven	Wayside Inn	Hampton, N.B.
Lantz, Floyd Crawford	132 Crescent St	Montreal, Que.
Lewis, James Wentworth	154 Britain St	St. John, N.B.
Livingstone, Kenneth MacKay	1249 Kenyon St., N.W.	Washington, D.C.
Lordly, Guy Sterling		St. John, N.B.
Louttit, William Charles	3371 Greenshields Ave	Montreal, Que.
Loy, John Austin	177 Waverly St	Ottawa, Ont.
McCurdy, Lyall Radcliffe		New Glasgow, N.S.
Macdonald, Daniel		Springhill, Que.
Macfarlane, Donald Henry	36 Melbourne St	Sherbrooke, Que.
McIntyre, Gordon	84 St. Famille St	Montreal, Que.
Mackenzie, Donald Gordon	1012 Dorchester St. W.	Montreal, Que.
MacPhail, Jeffrey Burland	216 Peel St	Montreal, Que.
Mawdsley, James Buckland		Clemens, Alta.
Maxwell, Edward Blythe	312 Peel St	Montreal, Que.
*Millidge, Brydone deBlois	57 Cranston Ave	St. John, N.B.
Mitchell, Frank Leslie	161 Admiral Road	Toronto, Ont.
Mooney, Renel Burdett		Stellarton, N.S.
Muir, Wilson James	386 Roslyn Ave	Westmount, Que.
Nutter, Jack Caswell		Lennoxville, Que.
O'Halloran, James	408 Queen St	Ottawa, Ont.
O'Sullivan, Louis	197 Jeanne Mance St	Montreal, Que.
Palmer, Charles Leonard	3 Lombard St	London, E.C., England.
Patterson, Kenneth Breck	4222 Dorchester St	Westmount, Que.
Perrault, René Brunay	2100 Park Av	Montreal, Que.
Perriton, Douglas Eric	373 Grosvenor Ave	Westmount, Que.
Phelan, Thomas E	338 Kensington Ave	Westmount, Que.
Robertson, Andrew Murray	2432 St. Urbain St	Montreal, Que.
Rochester, Gordon Hamilton		Haileybury, Ont.
Rochester, Lloyd Baillie	145 James St	Ottawa, Ont.
Salamis, Basil K	782 Shuter St	Montreal, Que.
Saunders, James Erling		Westville, N.S.
Scriver, Frederick William	1667 Hutchison St	Montreal, Que.
Shotwell, John Stuart G	68 Somerset St. W	Ottawa, Ont.
Sloves, Moses	104 Park Ave	Montreal, Que.
Smith, David Whitney	175 Metcalfe Ave	Westmount, Que.
Smith, Roy Hamilton		Pictou, N.S.
Stroud, William Dicker	18 St. Matthew St	Montreal, Que.

*Partial.

NAME	STREET ADDRESS	CITY OR TOWN
Tansley, Wilfred	46 Mecklenburg St	St. John, N.B.
Thomspon, Gordon Maurice	54, 12th Ave	Vancouver, B.C.
Thompson, Walter Wilfrid	1267 Bernard Ave	Outremont, Que.
Timmerman, Everett Drinkwater	260 Bishop St	Montreal, Que.
Tison, Maurice	234 Pius IX Blvd	Montreal, Que.
Van Etten, Fred. Bouton (Arch.)	156 Wall St	Kingston, N.Y.
Vaughan, Harold Wilfred		Wolfville, N.S.
Vineberg, Samuel Sullivan	St. Elmo Apts., Colony St.	Winnipeg, Man.
Ward, Melville Ernest St. C.	52 Clergy St	Kingston, Ont.
Warriner, Norman Downing	681 Shuter St	Montreal, Que.
Watson, Conrad Ethelbert	Race Course P.O.	New Yarmouth, Jamaica, B.W.I.
Weldon, Leslie Smiley	636 Dorchester St., W	Montreal, Que.
Wells, Maurice R.	4036 Tupper St	Montreal, Que.
Whelan, Morland Powers	260 Somerset St	Ottawa, Ont.
Wilkins, Harold Oswald Day		Norwood, Ont.
Wilson, James Kinnear	34 Victoria St	Sherbrooke, Que.
Winslow, Kenelm Molson	136 Middle Gate	Winnipeg, Man.
Yates, Christopher Montague	116 Crescent St	Montreal, Que.

FOURTH YEAR

Arbuckle, James Stewart		Pictou, N.S.
Austin, Clarence Ward		Kamloops, B.C.
Bétournay, J. Noé	554 Riverside Drive	St. Lambert, Que.
Bourret, Paul	529 St. Urbain St	Montreal, Que.
Bradley, Herbert Ellison		Smith's Falls, Ont.
Cameron, Edward Parke	246 Addington Ave	Montreal, Que.
Chisholm, Alex. Harold		Stellarton, N.S.
Code, Francis Leslie	c/o T. J. Code, Trade & Commerce Dept.	Ottawa, Ont.
Cole, William Stanley	5 George St	Brockville, Ont.
Creighton, Charles Pearse	38 Royal Ave	New Westminster, B.C.
Crowe, Cyril Holesworth		Stewiacke, N.S.
Davies, Vernon Russell	R.R. No. 1	Franklin, Man.
Dawson, Heber William	436 Gilmour St	Ottawa, Ont.
DeCew, Reginald Mark		Hutton Mills, B.C.
Demers, Paul E.	56 Sherbrooke St., W	Montreal, Que.
Deneau, Gaston	1869 Chateaubriand Ave	Montreal, Que.
Douglas, George Vibert	4193 Sherbrooke St., W	Westmount, Que.
Dunbar, John Robert	332 Somerset St	Ottawa, Ont.
Durnford, Alexander Tilloch G. (Arch.)	9 Simpson St	Montreal, Que.
Dyer, Harry O'Regan		Sutton, Que.
Eadie, Robert Scott	1321 Wellington St	Ottawa, Ont.
Edward, Arthur James	359 Roslyn Ave	Westmount, Que.
Edwards, Gordon Maxwell M.	55 McKay St	Ottawa, Ont.
Elder, John Campbell	108 Strathearn Ave	Montreal West, Que.
Elderkin, Karl Osler		Weymouth, N.S.
Emery, Herbert James	10,044, 106th Street	Edmonton, Alta.
Erlenborn, Willi	51 York St	Westmount, Que.
Ferrier, Alan	799 University St	Montreal, Que.
Fox, Hugh Dean	57 Birckhead Place	Toledo, Ohio
Gilbert, Philip Geoffrey B.	496 Huron St	Toronto, Ont.
Greene, Leslie Kirk	39 Crescent St	Montreal, Que.
Hacker, Louis Waldo		Summerside, P.E.I.
Hart, Lawrence Folger Carleton	354 Stewart St	Ottawa, Ont.
Henry, Leslie Stewart	427 MacKay St	Montreal, Que.
Hobart, George Maxwell	118 Ballantyne Ave., N.	Montreal West, Que.
Karnes, Harry V.		Staunton, Va., U.S.A.

NAME	STREET ADDRESS	CITY OR TOWN
Kearns, William Francis	74 Somerset West	Ottawa, Ont.
Kelly, John Lee		Buckingham, Que.
Kirkpatrick, Harold Thompson		Parrsboro, N.S.
Labell, Maurice N		Mansonville, Que.
Lafontaine, Gerard H	1303 St. Hubert St	Montreal, Que.
LaMontagne, Henri Gaston	802 Dorchester St., W	Montreal, Que.
Larose, Paul	212 Prud'homme Ave	Montreal, Que.
Lee, Harold Carleton	100 Leinster St	St. John, N.B.
Lindsay, Guy Adamson	811 Jessie Ave	Winnipeg, Man.
Lyman, Gordon (Arch.)	74 McTavish St	Montreal, Que.
MacEwen, Ewen	61 Isabella St	Toronto, Ont.
Mackenzie, Brouard Hunter T.	91 Steadman St	Moncton, N.B.
McLean, William Henry		Crapaud, P.E.I.
McNicoll, Charles	2 Forden Ave	Westmount, Que.
McPhail, Donald Stuart	Tulloch, Bog Walk P.O.	Jamaica, B.W.I.
Macpherson, Hugh		New Glasgow, N.S.
Macklin, Herbert George		Fenella, Ont.
Mahaffy, Herbert Laurence	B. 6, Board of Trade	Montreal, Que.
Millar, Thomas Boyd		Portage la Prairie, Man.
*Millidge, Brydone deBlois	57 Cranston Ave	St. John, N.B.
Mooney, Frank Melbourne	17 Sussex Ave	Montreal, Que.
Mosher, Wilfrid Douglas		Lunenburg, N.S.
Parnell, Eric	68 Rye St	Medford, Mass.
Parsons, Frederick Sidney		East Angus, Que.
Patten, Roy Hamilton	204a Milton St	Montreal, Que.
Penney, Edgar		Carbonear, Nfld.
Pope, Eric Julyan	128 Arlington Ave	Westmount, Que.
Powell, John Murray	180 Cooper St	Ottawa, Ont.
Purcell, John Metcalfe		Cobden, Ont.
Rashback, Harry Hyman	1531 Esplanade Ave	Montreal, Que.
Roberton, Kenneth Baillie	138 Crescent St	Montreal, Que.
Robertson, Robert McFadzeau	100 Riverside Drive	Lachine, Que.
Ross, Bruce	393 Kensington Ave	Westmount, Que.
Ross, James Hamilton	811 University St	Montreal, Que.
*Routledge, Henri Oscar (Withdrew Dec. 15, 1919)	"Furzebrook" House	Wareham, Dorset, England.
Rutherford, Archibald Bowman	467 Mt. Pleasant Ave	Westmount, Que.
Rutherford, William Jackson	109 Cote St. Antoine Rd	Westmount, Que.
Schippel, Walter Herbert	573 Durocher Ave	Outremont, Que.
Scott, William Beverley		Dalhousie, N.B.
Seath, William Pringle	55 Sussex Ave	Montreal, Que.
Shapter, Carl	137 Charron St	Montreal, Que.
Shrimpton, Dudley John	330 Victoria Ave	Westmount, Que.
Smith, Donald T	811 University St	Montreal, Que.
Smith, Edmund Howard	453 Grosvenor Ave	Westmount, Que.
Standish, Samuel James		Waterloo, Que.
Stewart, Malcolm Gordon	2159 Esplanade Ave	Montreal, Que.
Taylor, John Ross	107 Cote St. Antoine Rd	Westmount, Que.
Thomas, Philip (Arch.)	143 Colonial Ave	Montreal, Que.
Thompson, Trevor Creighton	"Fan-na-Grine," Cote des Neiges Road	Montreal, Que.
Twinberrow, James Oswald	4160 Sherbrooke St., W	Westmount, Que.
Vessot, Charles Ulysses R	67 Balsam St	Ottawa, Ont.
White, MacLeod		New Denver, B.C.
Wickenden, Jean Francois	9 Tower Place	Danbury, Conn.
Wiggs, Gordon Lorne	"Hessel Grove," St. Foye Road	Quebec, Que.

*Partial.

NAME	STREET ADDRESS	CITY OR TOWN
Wilson, Eldon Parker	173 Cooper St	Ottawa, Ont.
Windsor, J. Rorke	389 Clarke Ave	Westmount, Que.

FIFTH YEAR (Architecture only)

Little, Harold Butler	201 McLeod St	Ottawa, Ont.
McEvers, Harold		Coburg, Ont.

FACULTY OF MEDICINE

FIRST YEAR

Abbott-Smith, George Wakely	10 Bellevue Ave	Westmount, Que.
Abey, Harry Ross		Kaslo, B.C.
Acton, Jos. Henry		Gananoque, Ont.
Altner, Harry Arthur	537 Cadieux St	Montreal, Que.
Alward, Harold Cedric	84 Burpee Ave	St. John, N.B.
Amos, Edward Augustus	8, 36th Avenue	Lachine, Que.
Argue, Forrest Birkley		Shawville, Que.
Aronson, Jack	484 St. Patrick St	Ottawa, Ont.
Backman, Peter Louis	1256 St. Urbain St	Montreal, Que.
Bagley, Harry Edison		Danville, Que.
Beairsto, Everett Benjamin		Malpeque, P.E.I.
Birbeck, Albert Franklin	1016 Georgia St	Vancouver, B.C.
†Boyce, J. Clifford	317, 11th Avenue, E	Calgary, Alta.
Boyd, John H		River Bourgeois, N.S.
Boyle, Joseph Edgar	277 Bronson Ave	Ottawa, Ont.
Brady, Charles Peter		Lancaster, Ont.
†Breitman, Reuben	190 St. Timothée St	Montreal, Que.
Brown, Frank Meikle	Box 125	Carman, Man.
Brown, Laurence Wilmot	204 Daly Ave	Ottawa, Ont.
Bruce, Hugh Graham		Revelstoke, B.C.
†Bustin, Howard Barlow	158 St. James St	St. John, N.B.
Butler, William Shaw	11 Fairmont Ave	Ottawa, Ont.
Caldwell, John Ewart	102 Bank St	Ottawa, Ont.
Campbell, George Campbell	123 Crescent St	Montreal, Que.
Cardozo, Bertrand		Cayes, Haiti.
Chalmers, Frank Burne	1927 Angus St	Regina, Sask.
Charman, Millard Kempton		Charlottetown, P.E.I.
Chisholm, Colin Angus	Box 185	Antigonish, N.S.
Chisholm, Daniel Neil		Port Hastings, N.S.
Clarke, Austin M		Newcastle, N.B.
Cleland, John George Paxton	The Rectory	Penticton, B.C.
Clement, Hugh Wilfred	R.R. No. 2	Chesterville, Ont.
Clendinnen, Ivan Carman	384 Arlington Ave	Ottawa, Ont.
Coupal, Jean Louis		Sedley, Sask.
Cruikshank, John Merrill	2 Olive St	St. John West, N.B.
Curtis, Harry Croyle	Summerside	Somerset, Bermuda
Curtis, Victor Charles	18 Gower St	St. John's, Nfld.
Day, Edwin, Ethelbert	354, 15th Avenue, W	Vancouver, B.C.
Delahay, James Reginald	9 Allan Place	Ottawa, Ont.
Dempsay, Gordon Roberts		Cochrane, New Ont.
Donovan, George James		Woodstock, N.B.
Doubilet, Sydney	50 Suzanne St	Montreal, Que.
Dragushan, Leon	901 Lillooet St., W	Moose Jaw, Sask.
Draper, William Banford	Jackson St	Freehold, N.J.
Dyer, William Robert		Alberton, P.E.I.
Eager, Richard Fred	176 Second Ave	Ottawa, Ont.

†Double Course.

NAME	STREET ADDRESS	CITY OR TOWN
Elliott, James Munro	1138 Matthews Ave	Vancouver, B.C.
Elliot, Spencer Graham	Wesleyan College	Montreal, Que.
Elvidge, Arthur Roland	2550 Waverley St	Montreal, Que.
Emmons, William Frank	1125, 11th Avenue, W	Vancouver, B.C.
Faulkner, Thomas William (Left Oct., 1919)		Eyebrow, Sask.
Feigenbaum, Jacob	1281 St. Urbain St	Montreal, Que.
Ferguson, James Abner		Cumberland, Ont.
Finlay, Stanley Peter	1368 Hornby St	Vancouver, B.C.
Fisher, Frank Lemuel		Truro, N.S.
Fitzmaurice, Lawrence Wylie		Campbellton, N.B.
Forrest, James Roberts	2019 Hutchison St	Montreal, Que.
Forrester, Alexander Vaughan	1018 Amphion St	Victoria, B.C.
Fraser, Donald Scott	Box 520	New Glasgow, N.S.
Fraser, James Oliphant	236 Duckworth St	St. John's, Nfld.
†Freedman, Joseph	93 South Ave	Lachine, Que.
Galipeau, Edwin Joseph Lorne	506 Moreau St	Montreal, Que.
Galipeau, John Albert	506 Moreau St	Montreal, Que.
Gault, P. Stanway	305 Stanley St	Montreal, Que.
Geddes, Aubrey Kent	Box 30	Truro, N.S.
Gincherman, Abie	24 Clarke St	Montreal, Que.
Ginsberg, Louis	2246 St. Urbain St	Montreal, Que.
Glickman, Harry	328 Redfern Ave	Westmount, Que.
Goldman, Louis	1769 St. Lawrence Blvd	Montreal, Que.
Graham, Howard Carson		Kemptville, Ont.
Grant, William Harold Skeith	4332 Montrose Ave	Westmount, Que.
*Gregory, Arnold Erasmus	Old Harbour P.O.	Jamaica, B.W.I.
Griffiths, James Jeffrey	221 Peel St	Montreal, Que.
Gunn, William George	546 Broadway W	Vancouver, B.C.
Hainlen, Edgar Willis		Lake Pleasant, Hamilton Co., N.Y.
Hall, Edmund Brinton		Bridgetown, N.S.
Hall, Noel Bathurst		Kaslo, B.C.
Hall, Norman Douglas	1985, 12th Avenue, W	Vancouver, B.C.
Halperin, Joshua Sydney	1461 St. Lawrence Blvd	Montreal, Que.
Hamilton, Robert Stanford	1420 Fort St	Victoria, B.C.
Harris, Sydney Louis	375 Lisgar St	Ottawa, Ont.
Helmcken, John Sebastian	915 Moss St	Victoria, B.C.
Henderson, Reginald Smith		Merigomish, N.S.
Henry, John Stewart		Salisbury, N.B.
Henry, Reginald Barrett	68 Hillcrest Ave	Montreal West, Que.
Hill, Nicholas Parsell	361 Kensington Ave	Westmount, Que.
Hilton, George E. M.	126 Lewis St	Ottawa, Ont.
Holmes, Thomas Carlyle		Victoria, B.C.
Holt, Charles Robert		Westport, Essex Co., N.Y.
†Hooper, Willis Mathieu		Brownsburg, Que.
Hope, John Donaldson		Lachute, Que.
Hosang, Samuel Alfred Baldwin	50 New St	Port of Spain, Trinidad, B.W.I.
Howell, John M.	380 Victoria Ave	Westmount, Que.
Hudon, Frederick Valmore		Richmond, Que.
Jeffrey, Joseph Royden		Arnprior, Ont.
Johnson, Hobart Whitney		Soperton, Ont.
Johnston, Douglas Butterworth		Athens, Ont.
Jones, Thomas Meredith	100 Jones Blvd	Victoria, B.C.
Kaufman, Moses Ralph	1843 Clarke St	Montreal, Que.
†Kay, Edwin	637 St. André St	Montreal, Que.
Keddy, Alfred Russell		Hemmingford, Que.
Kelly, Edward P		Buckingham, Que.
Kelly, Frederick Gerard	130 Fitzroy St	Charlottetown, P.E.I.

*Partial. †Double Course.

Name	Street Address	City or Town
Kelly, William Moore		Huntingdon, Que.
Kershaw, Edmund Vanston	916 Russell St.	Victoria, B.C.
Kuntz, Alfred Edward	424 Queen St.	Ottawa, Ont.
Langlois, Albert	659 Cumberland St.	Ottawa, Ont.
Lanthier, John Cecil	1179 St. Antoine Rd.	Montreal, Que.
Lantz, Joseph Pulsifer		Charlottetown, P.E.I.
Lawson, John Walter		Eganville, Ont.
LaZerte, Leonard Clarence	R.R. No. 2	Iroquois, Ont.
Lindsay, John Ralston		Glasgow Sta., Ont.
Little, Lawrence Peniston	201 McLeod St.	Ottawa, Ont.
Lloyd, Milton Sills		Rocanville, Sask.
Lynn, Leo J.	16 Lambert Ave.	Chelsea, Mass.
McBride, William Haskett		Carp, Ont.
MacDermid, Lynden Elwood		Martintown, Ont.
MacDermot, Pembroke Noel	4932 Western Ave.	Westmount, Que.
MacDonald, Aeldred Alexander		Havre Boucher, N.S.
Macdonald, Daniel A.		Fraser's Mills, N.S.
Macdonald, Donald Andrew	Scarth St.	Regina, Sask.
McDonald, Donald John	Archibald Ave.	North Sydney, N.S.
Macdonald, Sutherland		Vankleek Hill, Ont.
MacDonnell, Wilfred George	111 Hilton Ave.	Toronto, Ont.
McElligott, Dominic C.		Eganville, Ont.
MacGillivray, Donald Joseph		Antigonish, N.S.
McGinn, William John		North Wiltshire, P.E.I.
McGuire, John A.		Cornwall, Ont.
†McIntosh, Clarence Alexander	43 Park Ave.	Ottawa, Ont.
McIntosh, William Taylor		Vankleek Hill, Ont.
MacKeen, Robert Arthur H.		Rothesay, N.B.
†McKinnon, James Donald		Sudbury, Ont.
McLauchlin, Lucien Gould		Truro, N.S.
McLean, Ernest Matthew	31 Frederick St.	Port of Spain, Trinidad, B.W.I.
McLellan, Allister Matheson		Tatamagouche, N.S.
McVey, John Aloysius	187 Clemow Ave.	Ottawa, Ont.
Major, Emile Joseph Sylvain	12 Friel St.	Ottawa, Ont.
Mallcy, John Dorion		Blind River, Ont.
Marcotte, Edward G.	26 Jackson St.	Rochester, N.H.
Marsh, John Paul	131 Grand Allée	Quebec, Que.
Massie, Redvers Albert	4038 Tupper St.	Westmount, Que.
Matthews, Gordon Oliver	372 Arthur St.	Port Arthur, Ont.
Middleton, Lyall Archibald		Lachute Mills, Que.
Middleton, William	61 Cambridge St.	Victoria, B.C.
†Mirsky, Samuel	359 Cumberland St.	Ottawa, Ont.
Mitchell, Arnold Wilberforce	368 Victoria Ave.	St. Lambert, Que.
Mooney, Fraser Dudley		Stellarton, N.S.
Morris, Geoffrey Marshall		Windsor, N.S.
Morris, George Douglas	80 Askin St.	London, Ont.
Morrissey, Richard Herbert		Newcastle, N.B.
Murray, David Fraser	186 Joseph St.	Victoria, B.C.
Nash, Arthur B.	1005 Pemberton Road	Victoria, B.C.
Nelson, Harry Freas	49 Young St.	Hamilton, Ont.
Nelson, Julius	11113, 88th Avenue	Edmonton, Alta.
Noonan, Wilfred James V.	1385 Delorimier Ave.	Montreal, Que.
Olmsted, John Gerald Maurice		Ancaster, Ont.
Peters, Warren Haliburton		Glace Bay, N.S.
Petersen, Swara Elias	28 Mitchell Ave.	Toronto, Ont.
Phillips, Reginald Osmond	15 Arnold Road	Kingston, Jamaica.
Pope, Charles Leslie		Richmond, Que.

†Double Course.

NAME	STREET ADDRESS	CITY OR TOWN
Presner, Jack Copple	1497 St. Urbain St.	Montreal, Que.
Pretty, Henry Gurth	141 Hunter St. East	Peterboro, Ont.
*Pugsley, Douglas Russell	137 Paradise Row	St. John, N.B.
Pullar, William C.	8 East Queen St.	Kingston, Jamaica.
Quackenbush, James Gordon	143 Nepean St.	Ottawa, Ont.
†Rabinovitch, Jacob	213 Laval Ave.	Montreal, Que.
Rabinovitch, Phineas	213 Laval Ave.	Montreal, Que.
Ramjohn, Mohamed Rahaman	73 Cipiro St.	San Fernando, Trinidad, B.W.I.
Ramsay, Clyde Neville	90 Undercliffe Road	Montclair, N.J.
Ranson, Cecil Arnott		Lindsay, Ont.
Reid, Herbert Gordon	Broadway St.	Winnipeg, Man.
Richardson, Eric Carleton	21 Pine St.	Brockville, Ont.
Rivenovich, Louis	1877 St. Urbain St.	Montreal, Que.
Rivenovitch, Samuel	977 St. Catherine St. E.	Montreal, Que.
Roach, Robert Dickson		Tatamagouche, N.S.
Roberts, George Arthur C	2050, 4th Avenue E.	Vancouver, B.C.
Roche, Laurence Elmore	271 O'Connor St.	Ottawa, Ont.
Rosenbaum, Saul	475 St. James St.	Montreal, Que.
Ross, Hugh Graham	414 Bourgeois St.	Montreal, Que.
Ross, James B.	414 Bourgeois St.	Montreal, Que.
Roy, Roland	433 Rideau St.	Ottawa, Ont.
Rusofsky, Harry	604a Henri Julien Ave.	Montreal, Que.
Ryan, Joseph James, B.A.	33 Laporte Ave.	Montreal, Que.
Scanlan, Thomas Everett	688 Charlevoix St.	Montreal, Que.
†Schleifstein, Joseph Isaac	1049 St. Urbain St.	Montreal, Que.
Schwartz, Israel	90 Prince Arthur St. E.	Montreal, Que.
Senecal, Jos. George		St. Cesaire, Que.
Sherman, George Alexander		Scotstown, Que.
Silverman, Norman	850a Cadieux St.	Montreal, Que.
Sim, Norman Robinson		Windthorst, Sask.
Simpson, Harold Leslie		Springhill, N.S.
Simpson, Jeremiah Claude		Bay View Mills, P.E.I.
Skeet, Harold James	4 Meredyth Road	Barnes, S.W. 13, Surrey, England.
Skelley, Albert James	596 O'Connor St.	Ottawa, Ont.
Sloan, Ambrose Victor		Venton, Que.
Smith, Bruce Taylor	246 Oxford St. W.	Moose Jaw, Sask.
Stalker, Murray Raymond		Richmond, Que.
Stewart, John Archie	R.R. No. 1.	Kinburn, Ont.
Stilwell, L. Hamilton	48 St. Matthew St.	Montreal, Que.
Stock, Gerald Howard	448 Cooper St.	Ottawa, Ont.
Sullivan, Joseph Kenneth	1 Alexandra St.	St. John, N.B.
Taylor, Eric Owen		Ladner, B.C.
†Teitelbaum, Michael	95 St. Elizabeth St.	Montreal, Que.
Terry, Kingsley	1220 St. James St.	Victoria, B.C.
Thompson, Wendell William		Point La Nim, N.B.
Thurber, Donald Stuart		Millerton, N.B.
Tidmarsh, Clarence Johnson, B.A.		Charlottetown, P.E.I.
Trites, Albert Edward		Salisbury, N.B.
Turpel, William Nicholson	2551 Quadra St.	Victoria, B.C.
Urquhart, Robert Glen		Revelstoke, B.C.
Vallieres, Joseph Leon	57 Centre St.	Biddeford, Me.
†Vineberg, Norman M.	1518 Mance St.	Montreal, Que.
Volpe, Emil Alfred	364 Villeneuve Ave. W.	Montreal, Que.
Wade, Robert Simpson		Renfrew, Ont.
Wagner, O. (Withdrew early in Session)	1549 Clarke St.	Montreal, Que.
Walker, Douglas William	6150 Sherbrooke St.	Montreal, Que.
Ward, Peter Dennis		Lower Ireland, Que.

*Partial. †Double Course.

Name	Street Address	City or Town
Ward, Richard Vance	101 Dufferin St	Moncton, N.B.
Webster, Bruce Peck		Lansdowne, Ont.
Webster, Leith Hillman		Marie, P.E.I.
Weir, George Wesley		Trail, B.C.
White, George M	Box 116	Marysville, N.B.
Wiggins, Reginald Heber		Sackville, N.B.
Wight, George Earle	465 Moreau St	Montreal, Que.
Zinck, Russell Clark		Chester, N.S.

SECOND YEAR

Ackman, Frederic Douglas	177 Botsford St	Moncton, N.B.
Acker, John Christopher		Halifax, N.S.
Aitken, Leslie P		Aitken's Ferry, P.E.I
*Anderson, Marian	92 Brunswick St. W	Fredericton, N.B.
Anglin, Ives Maurice		St. John, N.B.
Apps, Carl O		Brantford, Ont.
Aylward, Gerald Fitzgerald	3809, 8th Street W	Calgary, Alta.
Backer, David Russell	1444 Clarke St	Montreal, Que.
Ballon, Harry Clarence	255 Bishop St	Montreal, Que.
Benger, Manfred Paul	336 Van Norman St	Port Arthur, Ont.
Blumenfeld, Edward Alexander	1015 Clarke St	Montreal, Que.
Boon, George Arthur	16 Guillaume St	Longueuil, Que.
Boucher, Pierre A	20 Clinton Ave	Brockton, Mass.
Boyle, Ernest Sterling		Wallace, N.S.
Britton, Sydney William		Barnstaple, Devon, England.
Browne, Leslie Aitchison	172 Mance St	Montreal, Que.
Buckley, Francis Joseph		Gloucester Jct., N.B.
Bulger, Craig D		Eganville, Ont.
Burke, Hugh Edmund		Little Metis Beach, Que.
Campbell, S. Hardie		Chesley, Ont.
Caron, René Edouard	194 Wilbrod Ave	Ottawa, Ont.
Carter, Ralph Harlan	Box 538	Truro, N.S.
Cashin, Martin Francis	c/o Sir M. P. Cashin	St. John's, Nfld.
†Center, Ervin Alfred	R.R. No. 2	Lachute, Que.
Chan, Qui Hin	552 Fisgard St	Victoria, B.C.
Chatters, Othello Pritchard	620 Olympic Place	Seattle, Wash.
Chesley, Arthur Sharp	69 Clarendon St	St. John, N.B.
Cohen, Jacob	566 St. Dominique St	Montreal, Que.
Cook, Maynard Stephen	33 Melgund Ave	Ottawa, Ont.
†Coveler, Harry A	231 St. Lawrence Blvd	Montreal, Que.
Crewson, Arthur Llewellyn		Alexandria, Ont.
Curtis, Edwin Johnston	2406, 5th Avenue W	Vancouver, B.C.
Davidson, Walter McDonald		Newton, Ont.
Dawson, Martin Henry		Truro, N.S.
Demaray, John Franklin		Forest, Ont.
Dowd, Kenneth Eardley	13 Third Avenue	Ottawa, Ont.
Druker, Maurice Emanuel	113 Garfield Ave	Detroit, Mich.
DuBerger, René L., B.A.	63 King St	Sherbrooke, Que.
Duncan, Garfield George	R.R. No. 2	Billings' Bridge, Ont.
Duskes, Emile	93 Pine Ave. E	Montreal, Que.
Ein, William		Glace Bay, N.S.
Elder, Herbert Munro	4201 Sherbrooke St	Westmount, Que.
Elderkin, Robert Ewart		Wolfville, N.S.
Enzer, Norbert	229 Esplanade Ave	Montreal, Que.
†Ereaux, Lemuel Price	463 Elm Ave	Westmount, Que.
†Evans, Otty Blair	40 Seely St	St. John, N.B.
†Everett, Herbert Stewart		St. Andrews, N.B.
Fegen, Solomon	12 Marlborough St	Montreal, Que.

*Partial. †Double Course.

Name	Street Address	City or Town
Feldman, Jacob	996 Cadieux St.	Montreal, Que.
Fineberg, Maxwell	414 Clarke Ave.	Westmount, Que.
Foster, Joseph Graeme	443 McLaren St.	Ottawa, Ont.
Fraser, William Allan	Rockland Ave. and St. Charles St.	Victoria, B.C.
†Freedman, Newman Barnett	86 Park Ave.	Montreal, Que.
German, Leland Erle	86 Pine Ave. W.	Montreal, Que.
Geshelin, Harry Israel	2533, 12th Avenue	Regina, Sask.
Gibbins, Emma Culross	152 Brunswick St.	Rochester, N.Y.
Gold, Solomon	197 Drolet St.	Montreal, Que.
Goldberg, Louis	993 City Hall Ave.	Montreal, Que.
Goldman, Ephraim J.	816 Almond St.	Syracuse, N.Y.
Gruber, Arthur Saul	1234 Cadieux St.	Montreal, Que.
Hall, Earle R.	1985, 12th Avenue W.	Vancouver, B.C.
Hamilton, Ronald Lorne	c/o Can. Bank of Commerce	Quebec, Que.
Harwood, William Liddell	2064 Hutchison St.	Montreal, Que.
Hay, James Cecil	654 Dallas Road	Victoria, B.C.
Heaney, William George	460 Superior St.	Victoria, B.C.
Heller, Harry	442 Henri Julien	Montreal, Que.
Hill, Emerson Stanley	137 McLeod St.	Ottawa, Ont.
Hume, William Edward	15 Montreal St.	Sherbrooke, Que.
Jackman, Leo J.	45 Springdale St.	St. John's, Nfld.
Jardine, Ingham Wright		Kensington, P.E.I.
Jessup, Horace Sihler		Ladysmith, B.C.
Johnson, Francis Bell	48 Lorne Ave.	Montreal, Que.
Kearns, Hubert John		Chesterville, Ont.
Knight, Francis Herbert	34 Circular Road	St. John's, Nfld.
†Knowlton, Henry Corey		Guilford, Me.
Korenberg, Samuel	85 Suzanne St.	Montreal, Que.
Kutzman, Nathaniel	1557 St. Lawrence Blvd.	Montreal, Que.
Lamoy, Lester Thomas		Ausable Forks, N.Y.
Lax, Abel		Hawkesbury, Ont.
Lewis, Mortimer H.	520 Plant St.	Utica, N.Y.
Lipsey, Hyman (Withdrew early in Session)	486 Strathcona Ave.	Westmount, Que.
Logan, Herbert L.	120 Chesley St.	St. John, N.B.
†McClure, James Carswell		Cowansville, Que.
McDonald, Claude Augustine	201 Agnes St.	New Westminster, B.C.
McDonald, Ronald Joseph	201 Agnes St.	New Westminster, B.C.
McGill, C. Sherlock		Shelburne, N.S.
McGrand, Frederic Addison	Mouth of Keswick	York Co., N.B.
McGregor, Douglas Urquhart		Waterdown, Ont.
MacIntosh, Donald Smith		West River, N.S.
McLean, Daniel Irving		Charlottetown, P.E.I.
McLeod, Charles E, Jr.	Box 80.	Glace Bay, N.S.
McPhail, Walter N.		Drummond, Montana.
Mader, Victor Owen	59 Morris St.	Halifax, N.S.
Magonet, Solomon		Glace Bay, N.B.
Maillard, Edgar Randolph	1 Frederick St.	Trinidad, B.W.I.
Muir, Harold U.		Chesley, Ont.
Marcovitch, Joseph	55 Colonial Ave.	Montreal, Que.
Marcus, David	1074 St. Urbain St.	Montreal, Que.
Marks, Moses Isaac	173 Colonial Ave.	Montreal, Que.
Massé, Norman	548 St. Denis St.	Montreal, Que.
Mitchell, Samuel Leslie	207 Douglas Ave.	St. John, N.B.
Moodie, George Earl		Otter Lake, Que.
Morgan, George Senkler	4173 Western Ave.	Westmount, Que.
Murphy, Brendan William	49 Larch Street	Halifax, N.S.
†Murray, William Alexander		Brownsburg, Que.
Orlando, Lorenzo	22 Belmont St.	Montreal, Que.

†Double Course.

Name	Street Address	City or Town
Parlow, Allan Laurence	411 McLaren St.	Ottawa, Ont.
Parsons, Cecil J. F.		Harbor Grace, Nfld.
†Petersen, James Norman	1214a Des Erables St.	Montreal, Que.
Petrie, Edward Archibald	3 Leonard Ave	Ottawa, Ont.
Pinhey, John Wolfenden		Hudson Heights, Que.
Quinn, John Gladstone	352 Nepean St.	Ottawa, Ont.
Rafolovitch, Moses Jacob	29 Park Avenue	Montreal, Que.
Robertson, James Ritchie	24½ South Park St.	Halifax, N.S.
Robillard, Antoine Benjamin	262 Lagauchetiere St. E.	Montreal, Que.
Robillard, Matthew Joseph	195 Nicholas St.	Ottawa, Ont.
Rosenbaum, Wilfred	475 St. JamesSt.	Montreal, Que.
Rowan, Arthur Alexander	Rowan Place (off Kennedy St.)	St. John, N.B.
Rubenstein, Charles S.	823 Almond St.	Syracuse, N.Y.
†Rubin, Saul	68 Colonial Ave	Montreal, Que.
Rutenberg, Leo	1008 St. Urbain St.	Montreal, Que.
Scharfe, Ernest E.	R.R. No. 1	Billings' Bridge, Ont.
Schiltz, Frances Helen	307 Ninth Street	Saskatoon, Sask.
Schultz, Charles	191 Colonial Ave	Montreal, Que.
Schurman, Charles Good		Wolfville, N.S.
Segal, Benjamin Wolf	136a Drolet St.	Montreal, Que.
Selzer, Julius	1702 Clay Ave	New York City.
Shaver, Frank W.	95 Canning Street	Montreal, Que.
Sheets, Cecil Clarence		Massena, N.Y.
Sheret, Andrew William	646 Gorge Rd	Victoria, B.C.
†Silver, Philip George	459 Mt. Pleasant Ave	Westmount, Que.
Silverberg, Arvid C		Karsnas, Finland.
Skinner, George Ferguson	178 Queen St.	St. John, N.B.
Skinner, William Kerr	76 Willowdale Ave	Outremont, Que.
Smallman, Ralph Benjamin, (B. Sc).		Wolfville, N.S.
Smith, Herbert Gordon	205 Rockland Road	St. John, N.B.
Smith, John Walter		Lachute, Que.
Smith, Walton Harold Young	294 Lyon St.	Ottawa, Ont.
†Somerville, Wallace Bertram		Bristol, N.B.
Spiro, Charles		New Glasgow, N.S.
Sweet, Arthur Henry		Thornhill, Man.
†Tarshis, Anny	187 Bloomfield Ave	Westmount, Que.
Thompson, Hugh Herbert	Box 56	Gananoque, Ont.
†Vaughan, James M.	105 Lorraine Ave	Mt. Vernon, N.Y.
Wallace, Frank Wilbert	P.O. Box 622	Nelson, B.C.
Watson, Charles Arthur	1157 Rockland Ave	Victoria, B.C.
Waxman, Abe	1222 Clarke St.	Montreal, Que.
Whiting, Richard Charles	622 Belmont Ave. W.	Montreal, Que.
Wilkie, Archibald Leslie		Antigonish, N.S.
Wilson, George Andrew	R.R. No. 2	Kars, Ont.

THIRD YEAR

Adams, Earl Hay		Pointe Claire, Que.
Allen, Harold McClennan	108 Carlton St.	Toronto, Ont.
Archibald, William Charles		Wolfville, N.S.
Arthur, Wilfrid Stewart		Sudbury, Ont.
Bassen, Edward Joseph	251 King St. East	St. John, N.B.
Baxter, Joseph Murray	105 Union St.	St. John, N.B.
Beall, Franklin George	327 Roslyn Ave	Westmount, Que.
Behan, Edmund Joseph		Pembroke, Ont.
Benjamin, Ben	455 Clarke St.	Montreal, Que.
Blampin, Winired Alice	139a Stanley St.	Montreal, Que.

†Double Course.

Name	Street Address	City or Town
Boyd, Jessie Marion	4253 Dorchester St.	Westmount, Que.
Breitman, Harry B.	273 Laval Ave.	Montreal, Que.
Brooks, W. Arthur		Indian Head, Sask.
Brouse, Ivan Edwin	505 Birks Building	Vancouver, B.C.
Brown, Trevor Goff		Melville, Sask.
Buckman, Charles	174 Laval Ave.	Montreal, Que.
Bussière, Henry Charles	114 St. Famille St.	Montreal, Que.
Childs, Mary C.	129 Bishop St.	Montreal, Que.
Clark, Stanley Killam		Kamsack, Sask.
Coler, Eugene Seeley	297 Prince Arthur St. W.	Montreal, Que.
Copeland, John Gardner		Cornwall, Ont.
Copeland, Newall		Cornwall, Ont.
Davis, Aaron	32 Notre Dame St.	Lachine, Que.
Dickey, Ernest,		Perdue, Sask.
Donnelly, Russell H.		St. John, N.B.
Druckman, Karl	190 Pine Ave. E.	Montreal, Que.
Feigenbaum, Benjamin	1058 City Hall Ave.	Montreal, Que.
Fitzgerald, Ralph Richard	46 Lorraine Apts.	Calgary, Alta.
Fluhmann, Charles Frederic		Kenogami, Que.
Fox, Charles B.		St. John's, Nfld.
Gardner, Alexander John		Cornwall, Ont.
George, Dixon McDonald	356 Notre Dame St. W.	Montreal, Que.
Goldman, Solomon	490 Wilson Ave.	Montreal, Que.
Golt, Moses Israel	1185 St. Lawrence Blvd.	Montreal, Que.
Gordon, Donald Cameron	208 Bay St.	Ottawa, Ont.
Griffin, Charles Norman		Paradise, Montserrat, B.W.I.
Griffith, Harold Randall, B.A.	221 Peel St.	Montreal, Que.
Hart, Henry Harper, B.A.	757 Upper Lansdowne Ave.	Westmount, Que.
Henry, Charles Blanchard	68 Hillcrest Ave.	Montreal West, Que.
Howe, Harland Fallis		Palmerston, Ont.
Hynes, John Story		Kensington, P.E.I.
Imbleau, J. E. Lorraine		Renfrew, Ont.
Ironstone, Paul Stanley		Sudbury, Ont.
Irwin, Lillian Doris	631 Victoria Ave.	Westmount, Que.
Jardine, Hugh	140 King St.	Moncton, N.B.
Johnston, Kenneth Burns	103 St. Mark St.	Montreal, Que.
Katzman, Harold	1202 Neilson St.	Utica, N.Y.
Kearns, Walter Patrick		Chesterville, Ont.
Kinsman, James Murray		Centreville, Kings Co., N.S.
Klein, David	180 St. Joseph Blvd. W.	Montreal, Que.
Laishley, Wilfrid	228 Waverly St.	Ottawa, Ont.
Levin, Tom	1352a Cadieux St.	Montreal, Que.
Livshin, Nathan	110 Monroe St.	Syracuse, N.Y.
*McCaw, Isabel C.	152 Mance St.	Montreal, Que.
McCormick, Robert Roy		Arnprior, Ont.
Macdonald, Douglas Ogilvie		Sutton, Que.
McDonald, Hugh Reid		Newton, Ont.
McGregor, John	1032 Cloverdale Ave.	Saanich, B.C.
McIntosh, John Forbes	43 Park Ave.	Ottawa, Ont.
MacLellan, Donald Francis		Glenville, N.S.
MacMillan, Douglas W.		Rome, N.Y.
McNabb, Atholl Munro	103 Gilmour St.	Ottawa, Ont.
McNamee, Francis Patrick	959 Fisgard St.	Victoria, B.C.
Messinger, Moses Joseph	1627 St. Dominique St.	Montreal, Que.
Miller, G. Gavin		Berwick, N.S.
Mills, Edward S.		Ormstown, Que.
Morgan, Phillip John George		Sorel, Que.
Naud, Henry J.		Smith's Falls, Ont.
O'Shaughnessy, Peter Earle	Box 939	Cobalt, Ont.

*Partial.

Name	Street Address	City or Town
Parke, George Kenneth		Pointe Claire, Que.
Percival, Eleanor Susan	649 Victoria Ave	Westmount, Que.
Potter, Carlyle Thornton	2132 Park Ave	Montreal, Que.
Robertson, George Henry		Falmouth, Jamaica, B.W.I.
Rose, William Harold		Morrisburg, Ont.
Rosenfeld, Joseph E		Battle Creek, Mich.
Ross, Alexander Grant	74 Morris St	Halifax, N.S.
Rothschild, David	323 Grosvenor Ave	Westmount, Que.
Ryan, John Thomas	214 Glencoe St	Montreal West, Que.
Schmidt, Otto Victor	4095 Tupper St	Westmount, Que.
Shapiro, Charles Engleson	477 Wellington St	Ottawa, Ont.
Sharp, Harold Hayes		Sussex, N.B.
Stenson, Walter Thomas, B.A.	3 Fulton Ave	Sherbrooke, Que.
Summers, Russel Arthur	1614 Mance St	Montreal, Que.
Usher, Barney David	970 Tupper St	Montreal, Que.
Watson, Edgar Robert	P.O. Box 85	Hawkesbury, Ont.
Wells, Thomas James		Rock Island, Que.
Werd, Fort Bush		Avonmore, Ont.
Whitebread, John		Nelson, B.C.
Wittenborg, Samuel Simon	517 Frontenac St	Montreal, Que.

FOURTH YEAR

Aarons, Morton Joseph	510 Madison St	Syracuse, N.Y.
Almond, Walter W		Altario, Alta.
Armour, John Campbell	R.R. No. 3	Perth, Ont.
Beamish, Oswald Foster		Billings' Bridge, Ont.
Bell, Everett Hard		Tryon, P.E.I.
Bernstein, Felix, B.A.	1659 Mance St	Montreal, Que.
Bolt, William	Queen's Road	St. John's, Nfld.
*Bourret, Reggie C	411 Mance St	Montreal, Que.
Bristol, John LeVarrie		Grenada, B.W.I.
Caldwell, Alexander Lorne		Loverna, Sask.
Candlish, Henry Maiben	784 Wilder Ave	Outremont, Que.
Cassidy, Gordon James	97 Mance St	Montreal, Que.
Chandler, Edward Bremner	26 Botsford St	Moncton, N.B.
Collins, George A. (Withdrew early in session)	107 Carey Ave	Wilkes-Barre, Pa.
Cooder, Howard Russell	201 Esplanade Ave	Montreal, Que.
Corbett, John Robert	10,975, 126th Street	Edmonton, Alta.
Crewson, Walter Lionel		Alexandria, Ont.
Cully, James H		Pembroke, Ont.
Daley, Mark Joseph	47 Jay St	Albany, N.Y.
Dawson, Howard LeRossignol	21 Bellevue Ave	Westmount, Que.
Dorrance, Wallace John	11,516, 102nd Avenue	Edmonton, Alta.
Dowdall, Geoffrey Francis		Almonte, Ont.
DuVernet, Edward Oliver		Digby, N.S.
Eakin, William Wilson	10 Ingleside Ave	Westmount, Que.
Eliasoph, Benjamin		Quebec, Que.
Emerson, C. Leonard	219 Guilford St	St. John West, N.B.
Field, Thomas Harold	5610 Jasper Ave	Edmonton, Alta.
Fink, Charles Telesphore		Mattawa, Ont.
Fish, Frank Hamilton	3219, 4th Street, N.W.	Calgary, Alta.
Fournier, Dudley		Sudbury, Ont.
Freedman, Morris	749a City Hall Ave	Montreal, Que.
Gaboury, Hector		Alfred, Ont.
Grant, Joseph Howe Brownell		Port Elgin, N.B.
Greenberg, Moses	200 Cartier Square	Montreal, Que.
Gross, Harry S	239 Pine Ave. W	Montreal, Que.
Harkin, George Herbert		Vankleek Hill, Ont.

*Partial.

Name	Street Address	City or Town
Hawthorne, Allan Blackall	316 Grosvenor Ave	Westmount, Que.
Heinbecker, Peter		Listowel, Ont.
Henderson, Egbert F	162 Prospect St	Hamilton, Ont.
Holling, Stanley Arnold	48 Arlington Ave	Westmount, Que.
Hooper, Harold Smith		Brownsburg, Que.
Hornbeck, Charles Sahler	37 Wall St	Kingston, N.Y.
Humphreys, John Clarles		Kinburn, Ont.
Hutchison, Keith Ogilvie	354 MacKay St	Montreal, Que.
Jamieson, Wm. Dawson Stuart		Clapham, Que.
Jones, Francis Edward	104 Henderson Ave	Ottawa, Ont.
Kearns, P. J.	129 Fourth Ave	Ottawa, Ont.
Keeping, B.C.		Murray Harbour, P.E.I.
Kenning, Stuart Guthrie	1503 Belcher St	Victoria, B.C.
Kinsman, Reginald Price		Waterville, King's Co., N.S.
Lally, Louis Michael John	312 Chapel St	Ottawa, Ont.
Lande, Joseph	1960 Jeanne Mance St	Montreal, Que.
Landor, R. D	617 Fulton Road	Canton, Ohio
Lapp, Victor R	R.R. No. 5	Cobourg, Ont.
Learoyd, Douglas Rainsford	26 Ralph St	Ottawa, Ont.
Levitt, Abel		North Bay, Ont.
Lockhart, James R		Bristol, N.B.
McBride, Clifford D	10,730, 81st Ave	S. Edmonton, Alta.
McCaffrey, Lawrence Edward		Ormstown, Que.
McDonald, John O		Warren P.O., Ont.
McGillivray, Alexander Malcolm	R.R. No. 1	Dalkeith, Ont.
McIntyre, Preston		Montague, P.E.I.
McKee, William Boyd		Rossburn, Man.
Malamud, William	1508 Esplanade Ave	Montreal, Que.
Malo, Robert Florent		Sudbury, Ont.
Manning, Clinton Edgar		Magog, Que.
Mapplebeck, Thomas Eric		Rochester, N.H.
Mulloy, John Knox		Wetaskiwin, Alta.
Murray, John Stewart		River John, N.S.
Ofiesh, Kanaan	444 Lagauchetiere St. E	Montreal, Que.
Orobko, John		Chamberlain, Sask.
Palmer, John Hammond		Gagetown, N.B.
Paradis, Charles O		Bessemer, Mich.
Parkins, Gerald Adams	828 University St	Montreal, Que.
Patterson, Robert Earl		Merigomish, N.S.
Pendrigh, Robert Murray	69 Mecklenburg St	St. John, N.B.
Planche, Lancelot Stuart		Cookshire, Que.
Porter, William Arthur		Yarmouth, N.S.
Raftery, Charles Raymond	7 Bishop St	Montreal, Que.
Riddell, Arthur Ezra		Morrisburg, Ont.
Robillard, John Joseph, B.A.	195 Nicholas St	Ottawa, Ont.
Ross, Charles Brown, B.A.		Lucan, Ont.
Ross, F. Dudley E	791 University St	Montreal, Que.
Ryan, Eric James	4721 Western Ave	Westmount, Que.
Sanders, Joseph Leonard	435 MacLaren St	Ottawa, Ont.
Scherzer, Morris	220 Villeneuve St. W.	Montreal, Que.
Scott, John William	10,217, 107th Street	Edmonton, Alta.
Scriver, Walter deMouilpied	4425 St. Catherine St	Westmount, Que.
Silverman, Benjamin	745 City Hall Ave	Montreal, Que.
Smith, Ebenezer Knox	1825 Brandon Hill	Knoxville, Tenn.
Smith, Herbert Bryant	64 Montgomery St	Gloversville, N.Y.
Smith, James Wallace Hepburn	1569 Mance St	Montreal, Que.
Stewart, Charles Conacher	Kincarrathie Crescent	Perth, Scotland.
Strasberg, Alex	674 City Hall Ave	Montreal, Que.
Strean, George	740 Notre Dame St. W.	Montreal, Que.
Tennant, Percy Stuart		Vernon, B.C.

Name	Street Address	City or Town
Thompson, Eustace Edmund	35 Bent St.	Georgetown, British Guiana.
Thompson, Gordon Edward	10,736, 108th Street	Edmonton, Alta.
Trefry, Harold Scott		Yarmouth, N.S.
Tremble, George Edward	423 Grosvenor Ave	Westmount, Que.
Usher, Saul Julius	970 Tupper St	Montreal, Que.
Valentine, John Baptist	145 Besserer St	Ottawa, Ont.
Walters, Lawrence John	7 Sophia St	Ottawa, Ont.
Walton, Roy Atkinson		Fort Saskatchewan, Alta.
Whitcomb, Harold Austin		Smith's Falls, Ont.
Whiting, Harry St. John	127 Abbott Ave	Westmount, Que.
Wyseman, Roderick Randolph (Withdrew Feb. 20, 1920)		Trinidad, B.W.I.
Young, Morley Alphonso R	11,828, 94th Street	Edmonton, Alta.

FIFTH YEAR

Ainsley, Harry Bryson		Tupper Lake Jct., N.Y.
Baltzan, David Mortimer	212, 28th Street W	Saskatoon, Sask.
Beattie, William Walter, B.A.	309 Stanley St	Montreal, Que.
Branch, Edmund Arnold Grey		St. John's, Antigua, B.W.I.
Brow, George Raymond	88 Upper Prince St	Charlottetown, P.E.I.
Brown, H. Stanley		Cornwall, Ont.
Cahalan, Richard Edward	100 Orange St	Wyandotte, Mich.
Campbell, H	272 Dorchester St. W	Montreal, Que.
Casselman, Hubert Haldane Lee		Winchester, Ont.
Cassidy, Halton Creighton	383a Aylwin Ave	Montreal, Que.
Coulson, Robert Berry McAllan	538 Grosvenor Ave	Westmount, Que.
Duffy, Joseph Leonard	404 Mance St	Montreal, Que.
Eaton, Carl Margeson		Truro, N.S.
Ellis, Harold Lloyd		St. Vincent, B.W.I.
Facey, Frederick Duncan		Millet, Alberta.
Farmer, Vincent		Vankleek Hill, Ont.
Foley, Timothy Francis J		Glencar, Caragh Lake, Co. Kerry, Ireland.
Fraser, Alex. A		Lakefield, Ont.
Gilhooly, Joseph P	222 Powell Ave	Ottawa, Ont.
Gillanders, Henry Edwin, B.A.		Lemesurier, Que.
Goodrich, Blynn Orville		Skowhegan, Me.
Gordon, John Keith, B.A.	356 Assiniboine Ave	Winnipeg, Man.
Henderson, Marshall Waitt	719 Cook St	Victoria, B.C.
Henderson, William Ewart		Chilliwack, B.C.
Heney, Vincent Paul	321 Chapel St	Ottawa, Ont.
Kramer, Raymond Walter		Guelph, Ont.
Levitt Nathan	1040 Michigan Ave	Detroit, Mich.
Little, George Douglas	600 Rockland Ave	Outremont, Que.
Lozinsky, Ezra	1148 St. Urbain St.	Montreal, Que.
MacDougall, James Alexander		Grand River, P.E.I.
McEuen, Charles Stuart	43 Grosvenor Apts., Sherbrooke St. W.	Montreal, Que.
McLellan, Wilfrid Gillies	189 Villeneuve St. W.	Montreal, Que.
McLeod, Roderick Alexander		Southey, Sask.
Markson, Moses		Alexandria, Ont.
Miller, Louis Albert	9621, 107th Avenue	Edmonton, Alta.
Montgomery, Lorne Cuthbert		New Richmond, Que.
Moret, Herman		Sion, Valois, Switzerland.
Moyse, Manole Don	933 Dorion St	Montreal, Que.
Notkin, Louis J	140 Cherrier St	Montreal, Que.
Notkin, Meyers	140 Cherrier St	Montreal, Que.

NAME	STREET ADDRESS	CITY OR TOWN
Parsons, Arthur Reginald		Coley's Point, Bay Roberts, Nfld.
Power, Richard M. H.	48 Seath St.	Quebec, Que.
Ruby, Carl	199 Esplanade Ave.	Montreal, Que.
Ryan, Clarence A		Vancouver, B.C.
Segall, Harry Nathan	162 De la Roche St.	Montreal, Que.
Sihler, Charles Harold	403 Union Ave.	Litchfield, Ill.
Stuart, William Charles	929 Willow Ave.	Hoboken, N.J.
Taylor, Clifford Etheridge		Cobalt, Ont.
Thorne, Lawrence Hubert		Millbrook, Ont.
Trainor, Owen Connolly		Charlottetown, P.E.I.
Trefry, Alfred Wade		Arcadia, Yarmouth Co., N.S.
Tweedie, William C		Rockland, Ont.
Vinet, Abraham K.	85 Mt. Royal Ave. W.	Montreal, Que.
Waugh, Theodore Rogers		St. Albans, Vt.
Williamson, Norman Trenholm	143 The Boulevard	Westmount, Que.
Wilson, Percy Milton	628, 12th Avenue E.	Vancouver, B.C.
Young, Arthur W.		Revelstoke, B.C.

DIPLOMA OF PUBLIC HEALTH

Church, Cyril Klock, M.D.		Aylmer East, Que.
Daw, William Fraser, M.D.	4042 Dorchester St. W.	Montreal, Que.
Douglas, Edgar, M.D.	Halifax Club	Halifax, N.S.
Goodridge, Leslie Ayres, M.D.	P.O. Box 79	Bridgetown, Barbados
Maunsell, Frederick Wyndham, M.D.		Eridge, Masterton, New Zealand.
Wheaton, H. Ashley, M.D.		Petitcodiac, N.B.

FACULTY OF DENTISTRY

FIRST YEAR

Abraham, Johnston William	88 City Councillors St.	Montreal, Que.
Aspler, Philip	1042 St. Dominique St.	Montreal, Que.
Benjamin, Abraham	371 Sanguinet St.	Montreal, Que.
Bourke, Edward Tennant	42 Lorne Ave.	Montreal, Que.
Brown, Henry T.	536 Argyle Ave.	Westmount, Que.
Brydone-Jack, Ernest Edmund (Withdrew Oct. 15, 1919)	768 McMillan Ave.	Winnipeg, Man.
Carter, John Wilbert		Salisbury, N.B.
Carver, John Kenneth	60a Roberval Ave.	Maisonneuve, Que.
Charland, Walter E.	1137 Wellington St.	Verdun, Que.
Clarke, Percy Maxwell	P.O. Box 252	Newcastle, N.B.
Cleveland, Edward Thorburn	7 Lorne Ave.	Montreal, Que.
Donigan, Maurice Lee		Magog, Que.
Dugan, James Lennox	2459 Park Ave.	Montreal, Que.
Flanagan, James Cyril	2164 Mance St.	Montreal, Que.
Goldenberg, Max	44 Drolet St.	Montreal, Que.
Gray, Charles Thomas	325 Drew St.	Woodstock, Ont.
Hyndman, Alex. William	45 Montreal St.	Sherbrooke, Que.
Kemp, Charles R. (Withdrew Oct., 1919)	328 Sunnyside Ave.	Ottawa, Ont.
Kent, Leonard Ernest		Ste. Anne de Bellevue, Que.
Laishley, James Harry	228 Waverley St.	Ottawa, Ont.
Lane, Verne	2127 Retallack St.	Regina, Sask.

Name	Street Address	City or Town
Levy, Albert	57 Sherbrooke St. E	Montreal, Que.
Lloyd, Howard George	232 Pearson Ave	Toronto, Ont.
McCarthy, Gerald James	150 St. Famille St	Montreal, Que.
McClenaghan, George Herbert	604, 12th Street S	Lethbridge, Alta.
McDonagh, William Anthony	1168 Delorimier Ave	Montreal, Que.
Macmillan, Allan John	100 Strathcona Ave	Ottawa, Ont.
McNally, W. J. Simon		Barachois, Gaspe, Que.
MacRae, Donald		Maxville, Ont.
Martin, Russell Edwin		Melbourne, Que.
Matthews, Harold Walter (Withdrew Jan. 6th, 1920)	33 Parade St	St. John's, Nfld.
Mills, James William		Ormstown, Que.
Moraites, George	Montreal Gen. Hospital	Montreal, Que.
Murray, Parvin Lamont		Lord's Cove, N.B.
Phelps, Walter Scaling	1173 Cote St. Antoine Rd.	Westmount, Que.
Pickel, Martin Reid		Cowansville, Que.
Pollack, Joseph (Withdrew Jan. 19th, 1920)	11 Colonial Ave	Montreal, Que.
Radnay, Frank S	347 Maitland St	London, Ont.
Ranger, Edgar Felix	283 Northcliffe Ave	Montreal, Que.
Robinson, Leslie Gilbert		Altario, Alta.
Simon, Morey Leonard	1075 St. Urbain St	Montreal, Que.
Singer, Jack	1093 St. Lawrence Blvd	Montreal, Que.
Strean, Lyon Peter	740 Notre Dame St. W	Montreal, Que.
Sullivan, Francis William		Woodstock, N.B.
Tanner, Charles William	1917 Angus St	Regina, Sask.
Valley, Arthur	9 Main St	Winooski, Vt.
Woodman, John Bernard		Coaticook, Que.

SECOND YEAR

†Bourke, William Manly	42 Lorne Ave	Montreal, Que.
Broderick, J. Vincent	Box 341	Cornwall, Ont.
Burton, Thomas Edwin		Cookshire, Que.
Crowe, Albert Douglas	1041 Second Ave. N.W.	Moose Jaw, Sask.
Dworkin, Simon	2226 St. Urbain St	Montreal, Que.
Fels, Gerald Bernard	612 Victoria Ave	Westmount, Que.
Franklin, Gerald	1539 Esplanade Ave	Montreal, Que.
*Ginsburg, Dr. Mary	1111 Amsterdam Ave	New York, N.Y.
Gross, Munsey Edward	1658 Mance St	Montreal, Que.
Grossman Albert	214 Cherrier St	Montreal, Que.
Harris, Saul	25 Craig St. W	Montreal, Que.
Kelly, Gordon Percy		Huntingdon, Que.
Lank, Harold Henry	1591 Cadieux St	Montreal, Que.
Rosen, Louis Julius	1630 Jeanne Mance St	Montreal, Que.
Swancesky, Alphonse Augustine	219, 5th Ave	New Westminster, B.C.

THIRD YEAR

Bernfeld, Benjamin	218 St. Joseph Blvd	Montreal, Que.
Goldwater, Ephraim (B.A.)	201 St. Joseph St	Lachine, Que.
Gregson, William Ewart	1216 Gladstone Ave	Victoria, B.C.
Hale, George M	104 Grey Ave	Montreal, Que.
Hyams, Bernard Lawrence	66 St. Famille St	Montreal, Que.
Kutzman, Ernest Abraham	1557 St. Lawrence Blvd	Montreal, Que.
Laurin, Earl	341 Charlevoix St	Montreal, Que.
Ratner, Michael	726 Colonial Ave	Montreal, Que.
Rosenbaum, Frank Leon	36 Sherbrooke St. W	Montreal, Que.
Russell, Samuel	1440 Gerrard St	Toronto, Ont.
Salomon, Nathan	179 Esplanade Ave	Montreal, Que.
Shklar, Louis	833 St. Urbain St	Montreal, Que.
Veith, G. Selwyn	80 Duluth Ave. W	Montreal, Que.
Weiner, Judah	1654 Esplanade Ave	Montreal, Que.

*Partial. †Double Course.

NAME	STREET ADDRESS	CITY OR TOWN
FOURTH YEAR		
Adams, Marston Emery		Magog, Que.
Common, John Stevenson	208 Wilson Ave	Montreal, Que.
Dance, James	2625 Hutchison St	Montreal, Que.
Donnelly, William Thomas	64 Moore St	St. John, N.B.
Eidinger, Louis Samuel	1232a Cadieux St	Montreal, Que.
Fineberg, Joseph	1764 Clarke St	Montreal, Que.
Jenks, Archie Nathaniel		Coaticook, Que.
Leahy, W. Gordon		Franklin Centre, Que.
MacSween, Sydney Alexander	375 Jeanne Mance St	Montreal, Que.
Parker, Chester T		Leeds Village, Que.
Pesner, Isidore N	1918 Mance St	Montreal, Que.
Ratner, Banus	1658 Esplanade Ave	Montreal, Que.
Schachter, Samuel Joseph	260 Ontario St. E	Montreal, Que.
Walsh, Arthur Lambert	280 Clifton Ave	Montreal, Que.

DEPARTMENT OF PHARMACY

Adams, Job Leonard	781 Bloomfield Ave	Outremont, Que.
Armstrong, Gordon Dennis	539 Grand Trunk St	Montreal, Que.
Boucher, Eugene	3002 St. Hubert St	Montreal, Que.
Choquette, Jean Bruno (Left early in session)		St. Pie, Bagot Co., Que.
Cunningham, Samuel John	144 Rozel St	Montreal, Que.
Dubnitsky, Joseph	31 Butler St	Montreal, Que.
Fish, Nathan	335 Esplanade Ave	Montreal, Que.
Frosst, Eliot Sumpter	17 Forden Ave	Westmount, Que.
Gauthier, Conrad		St. Pie, Bagot Co., Que.
Gruppy, Georges	2475 Christophe Colomb	Montreal, Que.
Hayes, Martin, Jr	602b City Hall Ave	Montreal, Que.
Hertz, Ella	2280 Esplanade Ave	Montreal, Que.
Hicks, Nelles V		Chesterville, Ont.
Hoichberg, Louis	351 Berri St	Montreal, Que.
Lambly, Comrie Stewart	358 Victoria Ave	Westmount, Que.
Lyons, Clarence Owen	271 Sherbrooke St. W	Montreal, Que.
Lyons, Robert H	271 Sherbrooke St. W	Montreal, Que.
Magnan, Charles Auguste		St. Elizabeth, Joliette Co., Que.
Maynard, Harry George	2668 Mance St	Montreal, Que.
Miller, Michael Jack	219 Esplanade Ave	Montreal, Que.
Moore, George Edward	317 St. Joseph Blvd. W	Montreal, Que.
Musgrove, Annie	338 Moreau St	Montreal, Que.
Neamtan, Jessie	1337 St. Lawrence Blvd	Montreal, Que.
Pehleman, C. Alex	816 Shuter St	Montreal, Que.
Poritsky, Mary	449 St. Urbain St	Montreal, Que.
Rosen, Abraham	861 City Hall Ave	Montreal, Qu.
Saunders, Harold Lynds		Bedford, Que.
Schacher, Dorothy	846 Cadieux St	Montreal, Que.
Selsky, David	184 Laval Ave	Montreal, Que.
Shuman, Lionel	1775 St. Urbain St	Montreal, Que.
Simpson, Walter John	413 Esplanade Ave	Montreal, Que.
Singer, Frank L	421 Esplanade Ave	Montreal, Que.
Terk, Nathan	1048 Clarke St	Montreal, Que.
Tyrrell, Kenneth	15 Plateau St	Montreal, Que.
Weinrauch, E. L	1199 St. Urbain St	Montreal, Que.

FACULTY OF LAW

FIRST YEAR

NAME	STREET ADDRESS	CITY OR TOWN
Abbott, Douglas Charles		Lennoxville, Que.
Amirkhanian, Armen	Y.M.C.A.	Brantford, Ont.
*Armstrong, Talbert Allen	Bushy Park	Barbados, B.W.I.
Biggar, Winchester Henry	Drummond Apts	Montreal, Que.
Boright, William Nelson		Mansonville, Que.
Brisebois, Joseph Adelard	214 St. Patrick St	Ottawa, Ont.
Buchanan, Erskine B. Q	731 Pine Ave. W	Montreal, Que.
Caron, George, B.A.		Hull, Que.
Cate, Eldridge		Sherbrooke, Que.
Chisholm, John Foster	35 Aberdeen Ave	Westmount, Que.
Clark, Robert John Oliver	St. Andrew's Manse	Three Rivers, Que.
Claxton, Brian Brooke	4167 Dorchester St	Westmount, Que.
Cliff, Ernest Howard, B.A.	357 Prince Albert Ave	Westmount, Que.
Cohen, Harry	14 Gillespie St	Sherbrooke, Que.
Cohen, Lawrence Z.	25 Rosemount Ave	Westmount, Que.
Coughlin, John Melbourne	526 Clarke Ave	Westmount, Que.
Crestohl, Leo Davide	1655 Esplanade Ave	Montreal, Que.
Crosby, Robert Richard G		Halifax, N.S.
Crowell, Kenneth Lee		Sandy Cove, Digby Co., N.S.
deLisle, Gaston	490 Lansdowne Ave	Westmount, Que.
de Martigny, F. Camille L		St. Jerome, Que.
Dillon, Wentworth Roy	301 Metcalfe St	Ottawa, Ont.
Dobell, Francis Curzon, B.A.	St. Louis Rd	Quebec, Que.
Driscoll, John Russell C (Left early in Session)	306, 8th Street	Saskatoon, Sask.
Duckett, Edward Hogan	30 Laval Ave	Montreal, Que.
Gallay, Abraham, B.A.	117 St. Joseph Blvd	Montreal, Que.
Gibson, Samuel Hersey		Port-of-Spain, Trinidad.
Glazer, Louis	33 Chaboillez Square	Montreal, Que.
Goodman, Clara Anita		Campbellton, N.B.
Goren, Charles Henry	1898 Esplanade Ave	Montreal, Que.
Hague, Harry McLeod	772 Dorchester St. W	Montreal, Que.
Hankin, Francis	648 Belgium Ave	Westmount, Que.
Hannen, Francis Raymond	19 Drummond St	Montreal, Que.
Harold, Joseph James, B.A.	344 Mountain St	Montreal, Que.
Hartley, Robert Wilfrid	318 Vancouver St	Victoria, B.C.
Hayes, Murray William	16 Windsor Ave	Westmount, Que.
Henry, Wallace Ross		Strathcona, Alta.
Holtham, Bartley Nelson, B.A.		Waterville, Que.
Hurtubise, Louis Vincent	763 Somerset St	Ottawa, Ont.
Hutchison, Paul Phelps, B.A.	4331 Western Ave	Westmount, Que.
Kavanagh, Henry Harold	276 Pine Ave., W	Montreal, Que.
LaBelle, Joseph Arthur W	70 Bolton St	Ottawa, Ont.
Lafleur, Maurice Theodore	314 Peel St	Montreal, Que.
Lallemand, John C	769 Sherbrooke St. W	Montreal, Que.
Larivière, Henri Alfred, B.A.		Melbourne, Que.
Lecker, Calla	75 Mt. Royal Ave. W	Montreal, Que.
Lighthall, William Schuyler	14 Murray Ave	Westmount, Que.
Long, John William	Fairbanks St	Dartmouth, N.S.
McCloskey, Francis L		Chesterville, Ont.
MacKenzie, Colin		Campbellton, N.B.
McLaughlin, Henry	266 Marcil Ave	Montreal, Que.
MacLean, Herbert Bayne, B.A.	127 Drummond St	Montreal, Que.
McLeod Ross		Baddeck, Cape Breton

*Partial.

NAME	STREET ADDRESS	CITY OR TOWN
*Macnaughton, Duncan	Dundurawe, Arboretum Rd	Edinburgh, Scotland
Macpherson, John Stewart B.	49 Somerset St	Ottawa, Ont.
Marcotte, Rosaire	18, 1st Avenue	Three Rivers, Que.
Marion, Camille Wilfrid A		Rockland, Ont.
Marler, George Carlyle	288 Peel St	Montreal, Que.
Mergler, Joseph Konrad	198 Ontario St. E	Montreal, Que.
Murphy, John Austin	431 Mance St	Montreal, Que.
Nantel, Eugene Joseph	533 Durocher St	Outremont, Que.
Nicholson, James Gordon	276 Pine Ave. W	Montreal, Que.
Nolan, Cyril Patrick	72 Albert Hall Mansions, Hyde Park	London S.W. 7, Eng.
O'Halloran, Melbourne, B.A.	21 Lincoln Ave	Montreal, Que.
Orlando, Anthony	22 Belmont St	Montreal, Que.
Parsons, Richard A		Bay Roberts, Nfld.
Phelan, Charles Chapelle	338 Kensington Ave	Westmount Que.
Purcell, John Merritt		Huntingdon, Que.
Ranger, David Victor (Withdrew early in Session)	283 Northcliffe Ave	Montreal, Que.
Ritchie, John R., B.A		Aylmer, Que.
Rivard, Joseph Edward		Joliette, Que.
Rochon, Jean Lionel Fernand	795 St. Urbain St	Montreal, Que.
*Rubenstein, Mortimer Ross	4928 Sherbrooke St. W	Westmount, Que.
Ryan, Donald Devlin	2519 Park Ave	Montreal, Que.
Savage, Joseph Clifford	492 Victoria Ave	St. Lambert, Que.
Solomon, Abraham S	1930 Jeanne Mance St	Montreal, Que.
Steinberg, Benjamin	548 St. Urbain St	Montreal, Que.
Strickland, Leslie Clyde		Trenton, N.S.
Stuart, Albert William, B.A		Napierville, Que.
Sutherland, William (Withdrew Nov., 1919)	110 St. Mark St	Montreal, Que.
Terroux, Arthur Maguire	797 University St	Montreal, Que.
Towers, Graham Ford, B.A.	77 St. Mark St	Montreal, Que.
Travers, Tedcastle C		St. Godfroi, Que.
Vanier, Peter Anthony	861 Dorchester St. W	Montreal, Que.
Weisman, Ellis Sol	302 Larch St	Sudbury, Ont.
Wilson, Kenneth A	Victoria St	Sherbrooke, Que.
Wolfe, John Patrick	4 Court St	Sherbrooke, Que.
Younger, George Robert, B.A.	135 Clandeboye Ave	Westmount, Que.

SECOND YEAR

Anglin, Gerald Gardnier		St. John, N.B.
Bernard, Rodolph	847 Oxenden Ave	Montreal, Que.
Chevalier, Alexandre		Drummondville, Que.
Crankshaw, John Edwin	451 Claremont Ave	Westmount, Que.
Foster, George Buchanan	8 Edgehill Ave	Montreal, Que.
Gallery, John O'Neill	237 Mountain St	Montreal, Que.
Genest, Frank D	4286 Sherbrooke St. W	Westmount, Que.
*Goulet, Donat		St. Georges, Que.
Grigg, Alec Phelps, B.A.	Jas. Coristine & Co	Montreal, Que.
Harris, Edmund Parker Dale	263 MacLaren St	Ottawa, Ont.
Hibbard, Charles Ambrose L.	101 St. Luke St	Montreal, Que.
Honey, Howard Percy (LL.B. Course)		Abbotsford, Que.
Kearney, John Doherty	499 Elm Ave	Westmount, Que.
Loranger, Louis D (Withdrew Jan., 1920)	235 Kensington Ave	Westmount, Que.
McCaffrey, Clarence Francis A	262 Prince Arthur St. W.	Montreal, Que.
McGillis, Alexander Francis	4833 Western Ave	Westmount, Que.
Mackeen, Henry Poole	"Maplewood"	Halifax, N.S.

*Partial.

Name	Street Address	City or Town
Mackenzie, John M. (LL.B. Course)		Hartsville, P.E.I.
Meyerovitch, Philip	93 Villeneuve St. W.	Montreal, Que.
Moscovich, Max Enoch	Cor. 8th St. & 9th Ave. S.	Lethbridge, Alta.
Neumann, Harold (LL.B. Course)	4927 Sherbrooke St. W.	Westmount, Que.
Patterson, James Duke	4049 Dorchester St. W.	Westmount, Que.
Penverne, John J.	202 Gauthier St.	Montreal, Que.
Perron, James B.	296 Pine Ave. W.	Montreal, Que.
Phillimore, Gerald Hawkeswood	20 Lincoln Ave.	Montreal, Que.
Popliger, Israel Alexander (LL.B. Course)	734 Shuter St.	Montreal, Que.
Presner, Philip	56 Shearer St.	Montreal, Que.
Robertson, James Hilary H.	4156 Dorchester St.	Westmount, Que.
Sabourin, A. O. Ivan		St. Jonns, Que.
Shapiro, Joseph J.	127 Mount Royal Ave. W.	Montreal, Que.
Shulman, Samuel Alex	1632 St. Urbain St.	Montreal, Que.
Shulemson, Abraham	717 Berri St.	Montreal, Que.
Smith, Arthur I.	138 Hampton Ave.	Montreal, Que.
Walker, Bernard Wattington		Hamilton, Bermuda.

THIRD YEAR

*Baker, Effie	Glenmere	Bolton Centre, Que.
Fry, Henry Stevenson, B.A.	14 Highland Ave.	Montreal West, Que.
Hughes, Adella Currie, B.A.	854 Lorne Crescent	Montreal, Que.
Maillet, Roger	83 Durocher St.	Montreal, Que.
Mazur, William Mortimer, B.A.	1881 St. Urbain St.	Montreal, Que.
Nicholson, William Cedric, B.A.	276 Pine Ave. W.	Montreal, Que.
Pender, Gordon Matthew		Windsor Mills, Que.
Philbrick, George W.		Danville, Que.
Seguin, André, B.A.		Rigaud, Que.
Shvemar, David	1505 Clarke St.	Montreal, Que.
Sigler, Max I.	1681 Notre Dame St. W.	Montreal, Que.
Tolzess, Isadore L.	1628 Hutchison St.	Montreal, Que.
Versailles, Maurice, B.A.	131 Stanley St.	Montreal, Que.

FACULTY OF AGRICULTURE

FIRST YEAR

Anderson, Ian Mackay		Beauharnois, Que.
*Anderson, William Walker	365 De l'Epée Ave.	Outremont, Que.
Armstrong, Thomas	26 St. Anne Road	Ste. Anne de Bellevue
Atwell, Ernest Alleyne	Hampton Plantation	St. Philip, Barbados, B.W.I.
*Bliss, Quartus		Compton, Que.
Bowen, George Harry	108 Hickson Ave.	St. Lambert, Que.
Bushell, Winston	150 Cote St. Antoine Rd.	Westmount, Que.
Chaplin, Edward Bruce	282 Farmington Ave.	Hartford, Ct., U.S.A.
*Coleman, John Geoffrey	20 Hospital St.	Montreal, Que.
*Collis, John Lennard Blannin	27 St. Sacrament St.	Montreal, Que.
*Cooper, Merrill Russell		Ormstown, Que.
*Creller, Neil Forester		Stanbridge East, Que.
Dimmock, Frederick	32 Robert St.	Ottawa, Ont.
Drummond, Charles Hepburn	R.M.D. No. 1	Sherbrooke, Que.
*Edward, Douglas Arthur	50 Bruce Ave.	Westmount, Que.

*Partial.

NAME	STREET ADDRESS	CITY OR TOWN
*Emberley, Kenneth Fenwick		Macdonald College, Que.
*Ferry, Charles Stewart		Huntingdon, Que.
*Gnaedinger, Lionel Albert	4170 Dorchester St.	Westmount, Que.
*Gnaedinger, Weston Emmanuel	315 Roslyn Ave.	Westmount, Que.
Graham, Archibald Robert	R.R. No. 1	Boilard, Que.
Grisdale, John Hume	Experimental Farm	Ottawa, Ont.
Heslop, Thomas Arthur		Macdonald College, Que.
Horsey, Arthur Sutherland		Longueuil, Que.
Hunt, George Edward	67 Rushbrooke St.	Montreal, Que.
*Kirby, Thomas Howard		Cookshire, Que.
*Kurrle, Anthony Frederick	Ste. Genevieve	Jacques Cartier, Que.
*McEwan, Alan Grandage	Crimple House	Harrogate, Yorks., (England).
*McFarlane, Alexander Stirling	York St.	Fredericton, N.B.
*MacGregor, George Harold Clifford	631 Davaar Ave.	Outremont, Que.
McKibbin, Reginald Robert		Chelsea, Que.
*McLaughlin, Clair Reginald	The Gables Farm	Foster, Que.
MacLennan, Malcolm		Scotstown, Que.
McOuat, Thomas Edward	Box 27	Lachute, Que.
Matthews, Gordon Stuart	R.R. No. 2	Lachute, Que.
*Naylor, Edgar Herbert	40 Aberdeen St.	St. Lambert, Que.
*Ness, Robert Brodie		Howick, Que.
Perron, Wilfrid Henri		St. Philippe de Chester, Que.
*Purvis, John William		Woodstock, N.B.
*Rolleston, Lancelot Omond	32 Main St.	Georgetown, Demerara, British Guiana, South America.
Russell, Mary Gertrude		Russellville, N.B.
*Sweet, Dwight Norman		Sutton, Que.
*Thompson, Percy Edmond	R.R. No. 2 Montreal Rd.	Sherbrooke, Que.
*Thomson, Roswell	242 Sherbrooke St. W.	Montreal, Que.
Tremblay, Felix		Baie St. Paul, Que.
*Vallatton, Gordon Philip		Ste. Agathe des Monts, Que.
Vanterpool, Thomas Clifford	Walmer Lodge	St. Michael, Barbados, B.W.I.
*Wiggins, John Keble		Sackville, N.B.
Williams, Edward Kimpton	73a Ste. Famille St.	Montreal, Que.
Wurzburger, Ralph Laurence	c/o Geo. Wurzburger	Bloomington, Ill.
*Zeederberg, Thelma Marie	"The Shanty"	Gezina, Pretoria, S.A.

SECOND YEAR

*Armitage, Wendell Henry	Box 23	Sherbrooke, Que.
Ashby, Patrick Terrence Harvey		Macdonald College, Que.
Beaudin, Leon Joseph Arcadius		Ormstown, Que.
Bouchard, Francois		Jonquiere, Que.
Brighton, Harris Weir	68 Arlington Ave.	Westmount, Que.
Cliche, Louis Philippe		East Broughton, Que.
Crang, William Clifford	264 Prudhomme Ave.	N.D.G., Montreal, Que.
Donalds, Daniel Angus	20 Church St.	Halifax, N.S.
Gordon, William Laurence	R.R. No. 1	Lachute, Que.
Graham, James Wesley		Brysonville, Que.
Hamilton, James Young		Shawville, Que.

*Partial.

Name	Street Address	City or Town
Hammond, George Henry		Aylmer, Que.
Lachaine, Osias Wenceslas		Orleans, Ont.
Lefebvre, John Gordon	2559 Hutchison St.	Montreal, Que
McGreer, Eric Daniel	831 Lorne Crescent	Montreal, Que.
Maw, Arthur John Goodall		Ormstown, Que.
Ness, Robert Bruce		Howick, Que.
Paterson, William James	72 York Ave.	Westmount, Que.
*Pewtress, John Amille		Beaconsfield, Que.
Rochon, Gerard Normand	65 Laurier Ave.	Hull, Que.
Salley, Edward Charles		Lachine Rapids, Que.
*Scharfe, Thomas Hector	Cumming's Bridge	Ottawa, Ont.
Shepherd, Edward Frederick Sisbett	La Guerite	St. Kitts, B.W.I.
Skinner, Clarence Tipson		Macdonald College, Que.
Smith, Laurence Arlington		Sutton, Que.
Sutherland, John Douglas	4330 St. Catherine St.	Westmount, Que.
*Templeton, Robert William		Riverfield, Que.
Winter, James McGill		Ormstown, Que.

THIRD YEAR

Barrett, W. H.		Shawville, Que.
Boily, Joseph Stephanen		Roberval, Que.
Bradford, William Cecil Rogers	R.R. No. 5	Lachute, Que.
Bragg, Paul Douglas	54 Harris Ave.	Moncton, N.B.
Brock, Otto Carlyle		Glen Sutton, Que.
Brown, John George		Macdonald College, Que.
Buchanan, James Stewart	Apt. 3, 670 Sherbrooke St. W.	Montreal.
Butler, Henry Albert	Kelligrews	Newfoundland
Chauvin, Frank Bernard	720 Maplewood Ave.	Montreal, Que.
Daly, Paul Macintyre	263 Charlotte St.	St. John, N.B.
Denison, Simeon Minor	Denison's Mills	Richmond, Que.
Dogherty, F. W.	1720 Hutchison St.	Montreal, Que.
Hetherington, Samuel Judson	Cody's	Queen's Co., N.B.
Hockey, John Frederick	Box 4	Tillsonburg, Ont.
Jones, Arthur Reginald	116 Grey Ave.	Montreal, Que.
Laurie, Douglas Melrose	398 Melrose Ave., N.D.G.	Montreal, Que.
McClintock, Pearl		St. Andrews' E., Que.
Major, Thomas Grant	37 Crescent St.	Montreal, Que.
Matthews, George Douglas		Macdonald College, Que.
Milne, Arthur Robb	110 Cedar Ave.	Pointe Claire, Que.
Nesbitt, Harvey Watson		Winchester, Ont.
Newton, Dorothy Elizabeth		Senneville, Que.
Norcross, Ashley Christopher		Lennoxville, Que.
Paige, Morton Baldwin		Coaticook, Que.
Parker, James Osmond		Coaticook, Que.
Perry, William Thomas	Butternut Ridge	King's Co., N.B.
Peterson, Archibald William	2158 Mance Street	Montreal, Que.
Richardson, James Keith	384 Oxford Ave.	Montreal, Que.
*Ross-Ross, Philip Durnford de Quincy		Lancaster, Ont.
Scannell, James Wesley		Chelsea, P.Q.
Simmonds, Pyre Morton	10 Wellington St.	Amherst, N.S.
Smith, James Black		New Glasgow, Que.
Watson, Cyril James	379 Lyon St.	Ottawa, Ont.

*Partial.

NAME	STREET ADDRESS	CITY OR TOWN
	FOURTH YEAR	
Ashton, William Elmo		Waterloo, Que.
Birch, Anthony Home Wyrley	264 Wood Avenue	Westmount, Que.
Buckland, Allan John		Coaticook, Que.
Derick, Russell Arthur		Clarenceville, Que.
Dunsmore, Wilford Grant	Box 82	Huntingdon, Que.
Hatch, Earle Clifton	Oromocto	Sunbury Co., N.B.
Hay, Angus Lockhart	Box 235	Lachute, Que.
Hay, Wiliam Drew		Lachute, Que.
Hodgins, Samuel Raymond Norris	Box 46	Shawville, Que.
Jones, Walter Norman	116 Grey Ave	Montreal, Que.
MacAloney, Mary Lee	Fairview	Halifax Co., N.S.
Matthews, Albert Edward		Macdonald College, Que.
Maw, William Alfred		Ormstown, Que.
Ness, John Earle		Howick, Que.
Pesner, Abraham Noah	1918 Mance St	Montreal, Que.
Peterson, Clyde Farrington		Macdonald College, Que.
Reid, W. J.		Chateauguay Basin, Que.
Saunders, Leslie Gale	19 Jubilee Road	Halifax, N.S.
Skinner, Samuel Greenway		Macdonald College, Que.
Welsh, John Nicholas		Kingsmere, Que.
	SPECIAL STUDENTS	
Boyce, Charles Edward		Athelstan, Que.
Evans, Harry Ilsley	28 Williams St	Moncton, N.B.
Holland, Henry Morley Drake	25 Grosvenor Apts	Corner Guy and Sherbrooke St., Montreal, Que.
St. George, Percival Townshend	36 The New Sherbrooke	Montreal.

DEPARTMENT OF SOCIAL SERVICE

	CERTIFICATE COURSE	
Ballantyne, Elizabeth	28 Terrasse Viau	Montreal, Que.
Duncan, Ruth Mary (Withdrew December, 1919)	640 Dorchester St. W.	Montreal, Que.
Fleet, Jane Drummond	33 Ontario Ave	Montreal, Que.
Friedman, Malca Hilda	128 Prince Arthur St. E.	Montreal, Que.
Goldstein, Amy J. (Left January, 1920)	Ritz-Carlton Hotel	Montreal, Que.
Hannah, Jessie K. (Withdrew Dec., 1919)	731 Sherbrooke St. W.	Montreal, Que.
Hay, Clara C.	76 King St	St. John, N.B.
Lambert, Helen Theodora	242 Sherbrooke St. W.	Montreal, Que.
Oughtred, Eleanor, B.A.	376 Claremont Ave	Westmount, Que.
Parkins, Jessie F.	828 University St	Montreal, Que.
Robson, Jean Hay	321 Dromore Ave	Winnipeg, Man.
Stevenson, Jessie G. (Withdrew Dec., 1919)	28 McTavish St	Montreal, Que.
Warren, Edith	4 Tower Ave	Montreal, Que.
Williams, Thelma Doris	1703 Hutchison St	Montreal, Que.

PARTIAL COURSES

NAME	STREET ADDRESS	CITY OR TOWN
Adair, C. H.	549 Lansdowne Ave	Westmount, Que.
Aidy, C. A.	756 University St	Montreal, Que.
Allison, May	70 Jeanne Mance St	Montreal, Que.
Arnold, Gertrude	423 Mt. Pleasant Ave	Westmount, Que.
Baker, Ethel	70 Jeanne Mance St	Montreal, Que.
Barnes, W. B.	756 University St	Montreal, Que.
Blampin, Madge		Granby, Que.
Brainin, Mrs. M.	2475 Hutchison St	Outremont, Que.
Broderick, Harriet	572 Grosvenor Ave	Westmount, Que.
Bryce, Winnifred	6 Albert Place	Westmount, Que.
Butler, Helen	1610 Jeanne Mance St	Montreal, Que.
Campbell, M. F. (Miss)		New Glasgow, N.S.
Carey, Margaret	4 Montague Mansions, Baker Street	London, W., England.
Cassidy, Mrs.	70 Jeanne Mance St	Montreal, Que.
Caverhill, Jessie Beatrice H.	365 Peel Street	Montreal, Que.
Caverhill, Mrs. T.	386 Sherbrooke St. W.	Montreal, Que.
Christie, Jessie M.	541 Victoria Ave	St. Lambert, Que.
Clarke, Miss	70 Jeanne Mance St	Montreal, Que.
Coghlin, Mrs. C. J.	70 Jeanne Mance St	Montreal, Que.
Davidson, Katharine	815 George St	Peterborough, Ont.
Davidson, Orion H.	694 Mountain St	Montreal, Que.
Davison, Miss Mary A.		Campbellton, N.B.
Dawson, Miss H.	4217 Western Ave	Westmount, Que.
Delany, Miss Olive Z.	46 Bishop St	Montreal, Que.
Dilts, J. A.	756 University St	Montreal, Que.
Dilworth, Kate		Cork, Ireland
Dowling, Christine R.	165 Winslow St	St. John W., N.B.
Drechsel, Hilda	St. Columba House Settlement	Montreal, Que.
Drew, Miss L. N.		Richford, Vt.
Dumaresq, Edna	70 Jeanne Mance St	Montreal, Que.
Eaton, Miss Marjorie		Truro, N.S.
Emmerson, Jean Campbell	300 St Joseph Blvd. W.	Montreal, Que.
Ewing, Estelle	168a Mansfield St	Montreal, Que.
Foreman, Kathryn	685 Shuter St	Montreal, Que.
Garland, Emily (Mrs.)	1083 Bernard W.	Montreal, Que.
Gass, Lillian	70 Jeanne Mance St	Montreal, Que.
Gaukrodger, C.	756 University St	Montreal, Que.
Gouldburn, Elizabeth	16 Parkfield Pl., Princess Park	Liverpool, England
Grosjean, G. F.	67 McTavish St	Montreal, Que.
Hilton, Amy B. (Mrs.)	Children's Memorial Hospital	Montreal, Que.
Hoben, Miss Grace	70 Jeanne Mance St	Montreal, Que.
Hogan, Miss	61 Bishop St	Montreal, Que.
Hunt, Miss	61 Bishop St	Montreal, Que.
James, Janet		Carleton Place, Ont.
Jobbling, Miss	61 Bishop St	Montreal, Que.
Kingman, Elsie Douglass	75 Redpath St	Montreal, Que.
Krzysinski, Ladislaw	67 McTavish St	Montreal, Que.
Learmonth, Winnifred	70 Jeanne Mance St	Montreal, Que.
Lessard, Miss	61 Bishop St	Montreal, Que.
Letourneau, Miss Alma	Western Hospital	Montreal, Que.
Livingstone, Duncan		High Bank, P.E.I.
Lloyd, J. E.	58 McTavish St	Montreal, Que.
Lynch, Miss E.	2 Mount St. Crescent	Dublin, Ireland.
Manson, Janet	67 McTavish St	Montreal, Que.
Marsh, A. T.		Birmingham, England
McAdam, F. G.	119 Mountain St	Montreal, Que.
McCrory, Catherine	344 Mountain St	Montreal, Que.
Mitchell, Andrew		Rawdon, Que.

Name	Street Address	City or Town
Moore, Mrs.	70 Jeanne Mance St.	Montreal, Que.
Moore, Kathleen	4318 Montrose Ave.	Westmount, Que.
Moore, Miss L.	342 Grosvenor Ave.	Westmount, Que.
Munn, Flora	St. Columba House Settlement.	Montreal, Que.
Murphy, J. A.	Montreal General Hosp.	Montreal, Que.
Mussen, Mrs. A. E.	731 Sherbrooke St. W.	Montreal, Que.
O'Callaghan, Miss.	61 Bishop St.	Montreal, Que.
Oliver, A. S.	756 University St.	Montreal, Que.
Parkes, R. H.	756 University St.	Montreal, Que.
Parkins, Jessie F.	828 University St.	Montreal, Que.
Paul, C. E. (Mr.)	70 Jeanne Mance St.	Montreal, Que.
Petticlerk, Mme. A.	70 Jeanne Mance St.	Montreal, Que.
Pitt, Thomas J.	Haldon Ave.	Teignmouth, Eng.
Porter, Mary	70 Jeanne Mance St.	Montreal, Que.
Prentice, Mona	773 Sherbrooke St. W.	Montreal, Que.
Reed, Miss.	61 Bishop St.	Montreal, Que.
Reid, Helen R. Y.	698 Sherbrooke St. W.	Montreal, Que.
Reynolds, Irene	1032 Dorchester St. W.	Montreal, Que.
Robertson, Grace	620 Transportation Bldg.	Montreal, Que.
Robertson, K.	4156 Dorchester St. W.	Westmount, Que.
Ross, Mrs. J. W.	42 The Linton Apts.	Montreal, Que.
Sargent, Agnes C.		Waterloo, Que.
Schopflocher, (Mrs.) Florence	1904 Van Horne Ave.	Montreal, Que.
Schuller, Mrs. O.	2475 Hutchison St.	Outremont, Que.
Scott, Bessie	256 Hampton Ave.	Montreal, Que.
Servage, H. M.	756 University St.	Montreal, Que.
Shand, Gwen	70 Jeanne Mance St.	Montreal, Que.
Shaw, Bessie	R.R. No. 1	Calumet, Que.
Silver, Y. (Miss)	9 Souvenir Ave.	Montreal, Que.
Smith, D. (Miss)	537 Dorchester St. W.	Montreal, Que.
Smith, Elizabeth Ross	101, 9th Avenue	Lachine, Que.
Sterns, Hazel	67 McTavish St.	Montreal, Que.
Townsend, T. F.	756 University St.	Montreal, Que.
Turner, Miss May G.	23 Paddock St.	St. John, N.B.
Vechsler, Harry	187 Milton St.	Montreal, Que.
Vey, W.	756 University St.	Montreal, Que.
Young, S. E. (Miss)	69 Park Ave.	Quebec, Que.

STUDENTS IN ATTENDANCE.

SESSION 1919-1920.

ARTS.	Undergraduates.	Partials.	Total.	
First Year—Men	106	21	127	
Women	81	17	98	
Second Year—Men	56	12	68	
Women	43	11	54	
Third Year—Men	47	11	58	
Women	37	14	51	
Fourth Year—Men	40	3	43	
Women	29	0	29	
SCHOOL OF COMMERCE.				
First Year—Men	73	6	79	
Women	2	0	2	
Second Year—Men	13	0	13	
Third Year—Men	9	1	10	
				632
APPLIED SCIENCE.				
First Year	268	2	270	
Second Year	154	4	158	
Third Year	121	4	125	
Fourth Year	90	1	91	
Fifth Year (Architecture)	2	0	2	
				646
MEDICINE.				
First Year—Men	223	2	225	
Second Year—Men	145	0	145	
Women	3	1	4	
Third Year—Men	83	0	83	
Women	5	1	6	
Fourth Year	107	1	108	
Fifth Year	57	0	57	
Diploma of Public Health	..	..	6	
				634
DEPARTMENT OF PHARMACY.				
For the Diploma of Pharmacy—Men	..	..	27	
Women	..	..	5	
				32
FACULTY OF DENTISTRY.				
First Year	47	0	47	
Second Year—Men	14	0	14	
Women	0	1	1	
Third Year	14	0	14	
Fourth Year	14	0	14	
				90

Law.	Undergraduates.	Partials.	Total.	
First Year—Men	83	3	86	
Women	2	0	2	
Second Year—Men	33	1	34	
Women	0	0	0	
Third Year—Men	11	0	11	
Women	1	1	2	
				135
Agriculture.				
First Year—Men	23	27	50	
Second Year—Men	24	3	27	
Third Year—Men	32	1	33	
Fourth Year—Men	20	0	20	
				130
Faculty of Music.				
Proceeding to the Degree of Mus. Bac.—Men			2	
Women			8	
Proceeding to the Diploma of Licentiate in Music—Men			1	
Women			20	
Partial Students			78	
				109
				2517
Less number whose names appear in more than one list				34
Total				2483
Department of Social Service.				
Certificate Course			14	
Partial Students			95	
			109	

UNDERGRADUATE AND GRADUATE SOCIETIES.

No Club or Society which has not been approved by the Corporation is entitled to use the name of the University, or of the Royal Victoria College. Applications for such approval, accompanied by a copy of the constitution, should be addressed to the Registrar.

The Students' Council of McGill University.

OFFICERS 1920-21.

President—D. R. Learoyd, Med. '21.
Controller—J. W. Jeakins, B.A.
Secretary—James A. Lalanne, B.A.

Executive Council.

R. S. O'Meara, Comm. '21, Representative from Arts.
J. D. Kearny, Law '21, Representative from Law.
A. M. Robertson, Sci. '21, Representative from Science.
R. Kinsman, Med. '21, Representative from Medicine.
J. Copeland, Med. '22, President McGill Union.
G. A. Parkins, B.A., Med. '21, President Rugby Club.
J. H. Cully, Med. '21, President Hockey Club.
R. L. Hamilton, Med. '23, President Track Club.
K. Forbes, Sci. '21, President Athletic Association.
J. N. Petersen, Med. '22, President "McGill Daily."

The McGill Union.

OFFICERS 1920-21.

President—J. Copeland, B.A., Med. '22.
Vice-President—C. E. Thompson, Sci. '23.
Secretary—S. H. Davis, Sci. '23.

"McGill Daily."

OFFICERS 1920-21.

President—J. N. Petersen, Med. '22.
Editor-in-Chief—R. J. Clark, Law '22.
Managing Editor—W. F. Macklaier, Arts '22.

Undergraduates' Literary and Debating Society.

OFFICERS 1920-21.

Hon. President—Dean Moyse.
Hon. I. U. D. L. Rep.—Dr. Leacock.
I. U. D. L. Rep.—J. C. Farthing.
President—D. C. Abbott.
Vice-President—F. O. Peterson.
Secretary—C. P. Hébert
Treasurer—W. S. Lighthall.

Arts' Undergraduates' Society.

OFFICERS 1920-21.

President—J. C. Farthing.
Vice-President—W. F. Macklaier.
Treasurer—A. T. McIntyre.
(Other Officers to be elected.)

R. V. C. Undergraduates' Society.

OFFICERS 1919-20.

Hon. President—Miss Hurlbatt.
President—Jean Nichol, '20.
Vice-President—Janie Spier, '21.
Sec.-Treasurer—Nora James, '22.
(Presidents from the four years to be elected.)

Undergraduates' Society in Applied Science.

OFFICERS 1919-20.

Hon. President—Dr. J. B. Porter.
President—C. A. Buchanan, '19.
Vice-President—R. H. Patten, '19.
Secretary—H. L. Mahaffy, '20.
Treasurer—J. R. Dunbar, '20.
Asst. Treasurer—J. M. Cuddy, '21.

Undergraduates' Society in Law.

OFFICERS 1919-20.

President—M. Versailles.
Vice-President—G. G. Anglin.
Secretary—J. O. Gallery.
Treasurer—Mrs. W. P. Hughes.

Medical Undergraduates' Society.

OFFICERS 1920-21.

Hon. President—Dr. Alex. Hutchison.
President—W. de M. Scriver.
Vice-President—Keith Hutchison.
Treasurer—Kenneth Johnson.
Secretary—A. L. Wilkie.
Asst. Secretary—C. J. Tidmarsh.
Councillors { Dr. Bazin. / Dr. Lewis. / Mr. Coler.

Philosophical Society.

OFFICERS 1920-21.

Hon. President—Dr. W. Caldwell.
Hon. Councillors { Dr. J. W. A. Hickson. / Dr. W. Tait.
President—L. A. Sperber, '21.
Vice-President—R. J. Clarke, B.A.
Secretary—M. H. Franklin, '21.
Treasurer—H. Echenberg, '21.

Chemical Society.

OFFICERS 1919-20.

President—Mr. E. G. Young, B.A.
Secretary-Treasurer—Mr. G. S. Whitby.
Executive Committee—Dr. A. Stansfield, Dr. L. V. King, Mr. O. Maass, M.Sc.

Mining Society.

(No list of Officers received.)

Physical Society.

OFFICERS 1920-21.

President—Dr. A. N. Shaw.
Vice-President—Dr. A. S. Eve.
Secretary—Mr. R. J. Clark, B.A.
Executive Committee—The above named officers.

Commercial Society.

OFFICERS 1920-21.

Hon. President—R. M. Sugars.
President—R. S. O'Meara.
Vice-President—A. L. Phillips.
Secretary—Miss G. E. Dougall.
Treasurer—A. H. MacKinnon.

Historical Club.

OFFICERS 1920-21.

Hon. President—Dr. C. E. Fryer.
President—S. G. Murray.
Vice-President—P. J. Kearns.
Treasurer—H. Cousens.
Secretary—P. H. Addy.
Advisory Committee—B. N. Holtham. C. Mackenzie.

Electrical Club.

OFFICERS 1919-20.

Hon. President—Dr. L. A. Herdt.
Hon. Vice-President—Prof. C. V. Christie.
President—E. J. Pope.
Secretary—A. G. Anderson.
Treasurer—T. A. G. Bishop.
Councillors—C. P. Creighton. H. W. Dawson. J. R. Dunbar. K. B. Robertson. J. R. Windsor.

Mechanical Club.

OFFICERS 1920-21.

Hon. President—Prof. C. M. McKergow.
President—J. C. Hall, Sci. '21.
Sec.-Treas.—E. B. Maxwell, Sci. '21.
Representative—L. R. McCurdy, Sci. '21.

Political Economy Club.

OFFICERS 1920-21.

Hon. President—Dr. Stephen Leacock.
Hon. Vice-President—Dr. J. C. Hemmeon.
President—L. W. Kern, Arts. '21.
Vice-President—H. Borden, Arts '21.
Secretary—G. S. McDougall, Arts '22.
Treasurer—P. H. Addy, Arts '22.

Architectural Society.

OFFICERS 1920-21.

President—W. K. G. Lyman.
Secretary—A. L. Perry.
Treasurer—A. T. G. Durnford.
Committee—Prof. R. Traquair. W. Carliss. L. E. Brown.
Partial Representative—To be elected.
First Year Representative—To be elected.

Cercle Français.

OFFICERS 1920-21.

Hon. President—Prof. René du Roure.
President—M. H. Franklin, Arts '21.
Vice-President—G. H. Phillimore, Law '21.
Secretary—F. H. Walter, Arts '23.
Treasurer—D. Cowan, Arts '23.

Société Française.

OFFICERS 1920-21.

Hon. President—Mlle. L. Touren.
President—Connie Harvey.
Vice-President—Doris Sharples.
Secretary-Treasurer—Audrey Lamb.
Reporter—Winnifred Birkett.
Representatives—Fourth Year, Rebecca Contant; Third Year, Evelyn Banfill; Second Year, Dorothea McConnel.

Delta Sigma Society.

OFFICERS 1919-20.

Hon. President—Mrs. W. Vaughan.
Hon. Vice-President—Miss V. Brown.
President—D. Mawdsley.
Vice-President—E. Holland.
Secretary-Treasurer—R. Shatford.
Representatives—Fourth Year, G. Ewing; Third Year, K. Godwin; Second Year, E. McPartiln.
Poster Representative—H. Nichol.

Young Men's Christian Association of McGill.

All members of McGill University, and of the affiliated Colleges, are welcomed as Associate Members; the active membership comprises those who are church members, or who subscribe to a simple statement of faith, and approve the objects of the Association.

The home of the Association is Strathcona Hall, which, in addition to affording ample accommodation for the work of the Association as a whole, provides residence for sixty-seven men.

Full particulars regarding the work of the Association are given in the annual Hand Book, and will also be supplied by the General Secretary.

OFFICERS 1920-21.

Hon. President—Mr. W. M. Birks.
President—Angus McLean, B.A.
1st Vice-President—R. Hall, Theo. '22.
2nd Vice-President—H. H. Hart, Med. '22.
Rec.-Secretary—J. B. Ross, Med. '25.
Treasurer—T. G. Browne, Med. '21.
Gen.-Secretary—J. G. McKay, B.A., M.C.

Young Women's Christian Association of McGill University.

OFFICERS 1920-21.

Honorary President—Mrs. F. D. Adams.
President—Edith Barnes.
Vice-President—S. MacRae.
Recording Secretary—G. Beckwith.
Corresponding Secretary—D. Cross.
Treasurer—L. Kerr.

Royal Victoria College Athletic Association.

OFFICERS 1919-20.

Hon. President—Miss Lichtenstein.
Honorary Adviser—Miss E. M. Cartwright.
President—Queenie Savage.
Vice-President—Eva Ross.
Secretary-Treasurer—Mary Fry.
Basket Ball Manager—Grace Moody.
Tennis Manager—M. McDougall.
Hockey Manager—Hazel Davidson.
Fancy Skating Manager—Isabel Imrie.
Sports Manager—Helen Nichol.

Athletic Association.

OFFICERS 1919-20.

President—G. A. Parkins.
Vice-President—L. C. Montgomery.
Secretary—H. Fisk.

Rugby Football Club.

OFFICERS 1920-21.

Hon. President—Geo. Macdonald, B.A.
President—G. A. Parkins.
Vice-President—R. B. Anderson.
Sec.-Treasurer—J. G. Notman.
Faculty Representatives—Medicine, B. Keeping; Arts, B. Rutherford; Science, D. Ambridge; Law, G. Nicholson.

Swimming Club.

OFFICERS 1920-21.

Hon. President—A. S. Lamb, M.D.
President—L. W. Walters, Med. '21.
Vice-President—F. R. Winter, Sci. '23.
Secretary—W. Laidley, Sci. '23.
Treasurer—L. Parsons, Sci. '23.
Med. Rep.—W. Laishley, Med. '22.
Arts Rep.—M. Gaboury.
Sci. Rep.—P. Scott, Sci. '22.
Manager—M. Gaboury, Sci. '22.
Reporter—G. Miller, Med. '22.

Lawn Tennis Club.

OFFICERS 1920-21.

Honorary President—L. K. Greene.
President—M. E. St. C. Ward.
Vice-President—B. B. Claxton.
Secretary-Treasurer—J. O'Halloran.
Alumni Representative—Dr. H. R. Cleveland.
Arts Representative—J. C. Farthing.
Science Representative—B. Gordon.
Medicine Representative—C. N. Ramsay.
Law Representative—F. D. Kearney.

Harriers' Club.

OFFICERS 1920-21.

Hon. President—Dr. MacMillan.
President—R. L. Hamilton.
Vice-President—C. L. Palmer.
Sec.-Treasurer—Arnold Armstrong.
Captain—P. A. Boucher.

Ski Club.

OFFICERS 1920-21.

Hon. President—Lieut.-Col. Herbert Molson, M.C.
President—W. J. Rutherford.
Vice-President—D. Gordon.
Secretary—D. Foss.
Treasurer—O. N. Owens.

Hockey and Skating Club.

OFFICERS 1919-20.

Hon. President—Capt. L. Roberts.
President—E. J. Behan.
Vice-President—J. Gallery.
Sec.-Treas.—D. Dawes.
Representatives—Medicine:—V. Lapp.
Science:—J. Notman.
Arts & Law:—F. McGillis.

Track Club.

OFFICERS 1920-21.

Hon. President—Mr. W. Nicholson, B.A.
President—R. L. Hamilton.
Hon. Sec.-Treas.—Mr. M. Sutherland.
Vice-President—J. King.
Sec.-Treasurer—J. C. Hay.

Boxing, Fencing and Wrestling Club.

OFFICERS 1920-21.

President—G. W. Bain, Sci. '21.
Vice-President—J. Long, Law '22.
Secretary—G. O. Matthews, Med. '23.
Manager—D. W. MacKeen, Sci. '22.

Western Club of McGill University.

The Club has for its objects the furthering of the interests of McGill in the four Western Provinces and the helping of new students to McGill from these Provinces.

Students from Manitoba, Saskatchewan, Alberta, or British Columbia, coming to McGill for the first time, are requested to communicate with the Secretary of the Club, care The Union, McGill University, Montreal.

OFFICERS 1920-21.

Hon. President—Dr. J. L. Todd.
President—R. S. O'Meara.
Vice-President—A. S. Caldwell.
Secretary—E. H. Henderson.
Treasurer—J. M. Jones.
Committee—British Columbia:—J. S. Helmcken, 915 Moss St., Victoria, B.C.
Alberta:—F. H. Fish, 3219-4th St., Calgary, Alta.
Saskatchewan:—S. K. Clark, Kamsack, Sask.
Manitoba:—K. M. Winslow, 137 Middlegate, Winnipeg, Man.

Eastern Townships Club.

(No list of Officers received.)

The Maritime Club of McGill University.

The objects of this Club, which was formed nine years ago by the amalgamation of the Nova Scotia and New Brunswick and Prince Edward Island clubs, is to promote in every way possible, the best interests of students coming to McGill from the Maritime Provinces. Such students are urgently requested to communicate with the Secretary of the Club, who will be glad to render them all assistance in his power.

OFFICERS 1920-21.

Hon. President—Dr. C. A. Peters.
President—A. R. Lawrence, Sci. '22.
Vice-President—P. MacIntyre, Med. '21.
Secretary—H. S. Trefry, Med. '21.
Treasurer—A. H. Chisholm, Sci. '21.

American Club.

OFFICERS 1920-21.

Hon. President—Dr. J. Bonsall Porter.
President—H. V. Karnes, Sci. '20.
Vice-President—Henry C. Knowlton, Med. '23.
Treasurer—Keith Livingstone, Sci. '21.
Secretary—H. C. Waugh, Med. '20.
Asst.-Secretary—Harold Katzman, Med. '22.

Newfoundland Club of McGill University.

OFFICERS 1920-21.

President—C. F. Davis, Arts '22.
Vice-President—L. J. Jackman, Med. '23.
Secretary—G. Bishop, Sci. '23.
Treasurer—A. W. Johnson, Com. '21.
Reporter—R. Lemesurier, Arts '23.

McGill University Oriental Society.

(No list of Officers received.)

Graduates' Society of McGill University.

OFFICERS 1919-20.

President—Major George Macdonald, B.A., M.C.
Vice-Presidents—J. A. Nicholson, M.A., LL.D., Col. J. M. Elder, B.A., M.D. and Prof. Nevil Norton Evans, M.Sc.
Treasurer—W. W. Robinson, M.A.
Secretary—G. T. Hyde, B.Sc., 14 Phillips Sq., Montreal.
Executive Secretary—John W. Jeakins, B.A.

Alumnae Association of McGill University.

OFFICERS 1920-21.

President—Miss Ada Dickson, B.A. '04.
1st Vice-President—Mrs. A. R. Howell, B.A. '01.
2nd Vice-President—Miss G. Hunter, B.A. '88.
3rd Vice-President—Miss P. Leslie, B.A. '14.
4th Vice-President—Miss C. I. McKenzie, B.A. '04.
Corresponding Secretary—Miss Nora Morgan, B.A. '19.
Asst.-Corresponding Secretary—Mrs. Arthur Crompton, B.A. '96.
Recording Secretary—Miss Enid Price, B.A. '17.
Asst.-Recording Secretary—Miss S. L. Shaw, B.A. '94.
Treasurer—Miss A. Muriel Gillean, B.A. '05.
Assistant-Treasurers—The Misses Taylor, B.A. '00 and '14.

New York Graduates' Society.

OFFICERS 1919-20.

President—W. W. Colpitts, Sci. '99.
1st Vice-President—F. G. Wickware, Sci. '06.
2nd Vice-President—Robert MacDougall, Arts '90.
Secretary—W. H. Donnelly, Med. '03.
178 Woodruff Ave., Brooklyn, N.Y.
Treasurer—O. S. Hillman, Med. '06.

GOVERNORS.

1920 CLASS— { W. E. Deeks, Med. '93.
{ R. A. Weagant, Sci. '05.

1921 CLASS— { Frank Miller.
{ H. George Schwartz, Med. '98.

1922 CLASS— { J. L. Joughin, Med. '06.
{ D. S. Likely, Med. '05.

NON-RESIDENT COUNCILLORS.

Prof. J. C. Bracq, Arts '81, Poughkeepsie, N.Y.; Dr. C. J. Patterson, Med. '86, Troy, N.Y.; Dr. J. B. Harvie, Med. '81, Troy, N.Y.; Mr. R. O. King, Sci. '95, Buffalo, N.Y.; Mr. T. H. Addie, Sci. '02, Wilmington, Del.; Dr. E. W. Smith, Med. '82, Meriden, Conn.

Ottawa Valley Graduates' Society.

OFFICERS 1920-21.

Honorary President—P. D. Ross, B.Sc.
President—A. W. Duclos, B.A., B.C.L.
Vice-Presidents—J. B. McRae, B.Sc.; O. S. Finnie, B.Sc. D.L.S.; Dr. C. T. Ballantyne.
Secretary—J. H. H. Nichols, 2 Sweetland Ave., Ottawa, Ont.
Treasurer—Frederic E. Bronson, B.Sc.
Executive Committee—Gordon G. Gale, M.Sc.; Dr. H. B. Small; Dr. R. Harvie; S. C. Ells.

McGill Alumni Association of Chicago.

(No list of Officers received.)

McGill Graduates' Society of Honan, China.

(No list of Officers received.)

McGill Graduates' Society of Manitoba.

(No list of Officers received.)

McGill Graduates' Society of British Columbia.

OFFICERS 1920-21.

Hon. President—Dr. R. E. McKechnie.
President—Dr. F. P. Patterson.
Vice-President—Mr. W. H. Powell, B.Sc.
Secretary—Mr. Geo. H. Housser, B.A.
Treasurer—Abraham Lighthall, B.Sc.

District of Bedford McGill Graduates' Society.

OFFICERS 1920-21.

Honorary President—Dr. A. Judson Eaton.
President—J. A. Corcoran, M.D., C.M.
Vice-President for Missisquoi County—Dr. Wm. Crothers.
Vice-President for Brome County—Rev. G. J. McCormack, B.A.
Vice-President for Shefford County—C. A. Adams, Esq., B.A.
Secretary-Treasurer—Rev. Ernest M. Taylor, M.A., Knowlton, P.Q.

McGill Graduates' Society of Toronto.

OFFICERS 1920-21.

Chairman—Prof. L. A. Arkley, Sci. '00.
Treasurer—C. T. McDougall, Esq., Sci. '13.
Secretary—J. R. Donald, Esq., Arts '13.
74 Hampton Court Apts., Avenue Road, Toronto.

McGill University.

SESSIONAL EXAMINATIONS, 1919-1920.

Faculty of Arts.

FOURTH YEAR (GRADUATING CLASS).

PASSED FOR THE DEGREE OF B.A.

In Honours.

(Subjects arranged alphabetically.)

1. In Chemistry.

Rorke, E. Christine..... First Class Honours.
Hill, Eleanor M..... First Class Honours.
Davidson, Gertrude H..... Second Class Honours.
Goddard, Mabel A..... Second Class Honours.

2. In Economics and Political Science.

Biggar, Winchester H..... First Class Honours.
Taylor, Robert D..... First Class Honours.
Nichol, Helen R. H..... Second Class Honours.
Caverhill, George R..... Second Class Honours.
Greaves, Edwin M..... Third Class Honours.
Martin, Erle C..... Third Class Honours.

3. In English.

Moody, Mary G. H..... First Class Honours.

4. In English and French.

Novick, Fannie ..... First Class Honours.

5. In English and German.

Meyer, Bertha ..... First Class Honours and Henry Chapman Prize.

6. In English and History.

Nichol, Jean ..... First Class Honours.
Cameron, Sarah S..... First Class Honours.
Freedman, Lewis K..... First Class Honours.

7. In English and Latin.

Macdonald, Brenda ..... First Class Honours.

8. In English and Philosophy.

Wiseman, Solomon ..... First Class Honours.
Mawdsley, Mary D..... First Class Honours in English and Second Class Honours in Philosophy.

9. In French and Latin.

Wall, Eileen M..... Second Class Honours.

10. In Mathematics and Physics.

Douglas, Allie V..... First Class Honours and Anne Molson Gold Medal.

First Class General Standing.

Ewing, Gwendolyn G..... Special Certificate.

PASSED FOR THE DEGREE OF B.SC. (IN ARTS.)
IN HONOURS.

Shaw, Thomas P. G..... First Class Honours.

PASSED FOR THE DEGREE OF B.A.

IN THE ORDINARY COURSE.

(In order of merit.)

Class I.—Ewing, Gwendolyn G. *Class II.*—Imrie, Isabelle M.; Lalond, George F.; McLean, Angus H. and Mathers, Fred D., equal; McMillan, Myrtle; Bunt, Heber and Smith, Clifford B., equal; Peterson, Norman E.; McMillan, Hazel and Scott, Irene E., equal; Latham, James A.; Duncan, William L.; Savage, Queenie; Macnaughton, Margaret R.; Wilson, Alice E. *Class III.*—Henry, Edith F.; Reid, Jean; MacKinnon, Flora J.; DiFlorio, Pasquale; McDougall, Marguerite; Townshend, Cecil W.; O'Brien, John L. *Unranked.*—Boyd, Bernice E.; Lewis, Doris E.; McGibbon, Archibald D.; McRae, Roderick A.; Nicoll, Howard.

DOUBLE COURSE STUDENT IN ARTS AND MEDICINE QUALIFIED TO OBTAIN THE DEGREE OF B.A.

Davis, Aaron.

DOUBLE COURSE STUDENTS IN ARTS AND MEDICINE QUALIFIED TO OBTAIN THE DEGREE OF B.A. ON COMPLETION OF THE SECOND YEAR IN MEDICINE.

Center, Ervin A.
Coveler, Harry A
Evans, Otty B.
Everett, Herbert S.
Knowlton, Henry C.
McClure, James C.
Murray, William A.
Somerville, Wallace B.

DOUBLE COURSE STUDENT IN ARTS AND DENTISTRY QUALIFIED TO OBTAIN THE DEGREE OF B.A. ON COMPLETION OF THE SECOND YEAR IN DENTISTRY.

Bourke, William M.

DOUBLE COURSE STUDENT IN ARTS AND APPLIED SCIENCE QUALIFIED TO OBTAIN THE DEGREE OF B.A.

Dobson, Robert M

PASSED FOR THE DEGREE OF B.SC. (IN ARTS.)

IN THE ORDINARY COURSE.

(In order of merit.)

Class I.—None. *Class II.*—Donald, Frederick C. *Class III.*—Charlton, Dorothy K.; Joseph, Alfred H.

DOUBLE COURSE STUDENTS IN ARTS (B.SC. COURSE) AND MEDICINE QUALIFIED TO OBTAIN THE DEGREE OF B.SC. ON COMPLETION OF THE SECOND YEAR IN MEDICINE.

Ereaux, Lemuel P.
Freedman, Newman B.
Petersen, James N.
Rubin, Saul.
Silver, Philip G.
Vaughan, James M.

PASSED FOR THE DEGREE OF B. COM.

(In order of merit.)

Class I.—Badian, Alan M.; Antliff, William S.; Wetstein, Harris; Shapira, William. *Class II.*—Burland, George H.; Levitt, Moses; MacDonald, Findlay M. *Class III.*—None. *Passed Special Examinations.*—Glickman, Bernard.

THIRD YEAR.

HONOURS.

B.A. COURSE.

(Subjects arranged alphabetically.)

In Botany, Chemistry and Zoology.

Godwin, Kathleen F..... First Class Honours and Penhallow Prize.
Spier, Jane D..... First Class Honours.

In Chemistry.

Larkin, Beatrice J..... First Class Honours.
Barnes, Edith L..... First Class Honours.
Olding, Maude E. M..... First Class Honours.

In Economics.

Fife, Harry M..... First Class Honours and First Mackenzie Exhibition.
Borden, Henry } equal ..... First Class Honours and Second
Raphael, Max I. } Mackenzie Exhibition.
Kern, Marshall J..... Second Class Honours.
Kern, Louis W..... Second Class Honours.
Pratt, William F..... Second Class Honours.
Davidson, Winnifred H. } equal ..Second Class Honours.
Ross, Henry T..... }
Rowat, Harland C..... Second Class Honours.
Cameron, Katharine L. } equal ..Second Class Honours.
Sperber, Lionel A..... }
Common, Ernest C..... Second Class Honours.
Franklin, Michael H..... Third Class Honours.

In English and French.

Harvey, Constance M..... Second Class Honours.
Mathewson, Dorothy R..... Second Class Honours in English and Third Class Honours in French.

In English and History.

Hackett, Aileen A..... First Class Honours.
Cockfield, Helen R..... First Class Honours.
Bagg, William H..... Second Class Honours.
Husk, Ruth J. E..... Second Class Honours in English and Third Class Honours in History.

In French.

Silverman, Malca ..... Second Class Honours.

In Geology.

Dart, J. Doris..... First Class Honours.

In German

Silverman, Malca ..... First Class Honours.

In Greek and History.

Holland, Ethelwyn J..... First Class Honours and Dr. Barclay Exhibition.

In Mathematics.

Thornton, Jessie M..... Second Class Honours.

In Mathematics and Physics.

McPherson, Anna I..... First Class Honours.

B.SC. COURSE.

In Chemistry.

Hemming, Clarissa ..... First Class Honours.
Foran, Herbert P..... First Class Honours.

PASSED THE THIRD YEAR EXAMINATIONS.

1. For Course Leading to B.A.

(Arranged in alphabetical order.)

Bagg, Barnes (D.S.), Barnes (E.L.), Borden (E.L.), Borden (H.), Bunt (s), Cameron (G.M.), Cameron (K.L.), Campbell, Cockfield, Common, Contant, Curtis, Dart, Davidson, Farthing, Fife, Foran, Ford (C.), Ford (K.M.) (s), Ford (R.H.), Foster (s), Franklin, Gillespie, Godwin, Hackett, Harvey, Hébert, Holland, Husk, Kern (L.W.), Kern (M.J.), Larkin, Lewis (s), Macdiarmid, McGreer (s), McMinn (s), McPherson, Mathewson, Mills, Moule, Olding, Pratt, Raphael, Ross, Rowat, Silverman, Sperber, Spier, Stevenson, Symonds, Thornton (s).
Garrow (*aegrotat*).

2. Double Course in Arts and Medicine (B.A., M.D.)

(On completion of the First Year in Medicine.)

Boyce, Breitman, Bustin, Hooper, McIntosh (C. A.), McKinnon (J. D.), Schleifstein, Teitelbaum.

3. Double Course in Arts and Dentistry (B.A., D.D.S.)

(On completion of the First Year in Dentistry.)

Mills (J.W.).

4. Double Course in Arts and Applied Science (B.A., B.Sc.)

O'Heir (s), Smith.

5. For Course Leading to B.Sc.

Hemming, McCall, Phillips.

6. Double Course in Arts (B.Sc.) and Medicine (B.Sc., M.D.)

(On completion of the First Year in Medicine.)

Freedman, Kay, Mirsky, Rabinovitch (J.), Richardson.

SECOND YEAR.

HONOURS.

In Mathematics and Physics.

Tuffy, Magdalen E..... First Class Honours.

(s) Supplemental in one subject.

PRIZES.

McGoun, Isabella W.....First Mackenzie Exhibition.
Pierce, Sydney D.....Second Mackenzie Exhibition.
Moore, Dale H. .....Neil Stewart Prize.
Reid, Janet L.....Annie Macintosh Prize.
Shatford, Ruth M.....Annie Macintosh Prize.

PASSED THE SECOND YEAR EXAMINATIONS.

1. Course Leading to B.A.

Class I.—Shatford, Kerr, Reid, Weibel. *Class II.*—Snyder; Harris and White, equal; Macrae (D.), Riley, Holloway, Stewart (A. I. M.) (s), McPartlin, Newnham, Fry, Foley, Hall, Banfill; McGoun and Moore (s), equal; Sharples (s), Peterson, Pierce, O'Hagan; Avison and Cousens, equal. *Class III.*—Davis, McDonald, Elliot, Klineberg, Henderson, Murray (s), Joseph (s), Kneeland, Howell, Johnson; Mansfield (s) and Tait (s), equal; Rough (s), Rosenstein (s), Smith, Bullock (s), Mathewson (s), Higinbotham (s), Addy (s).

2. Double Course, B.A., B.Sc.

Class I.—None. *Class II.*—None. *Class III.*—Leslie (s).

3. Course Leading to LL.B.

Class I.—None. *Class II.*—Anderson. *Class III.*—Lidstone (s) and Rohrlich, equal.

4. Course Leading to LL.B., B.C.L.

Class I—None. *Class II.*—Macklaier (s). *Class III.*—None.

5. Course Leading to B.Sc.

Class I.—None. *Class II.*—Wilson. *Class III.*—Hibbard (s).

6. Double Course, B.Sc., M.D.

(On completion of certain Medical subjects.)

Alexander, Kanigsberg, Kennedy, McCulloch, Scheffer, Steine, Wolepor, Zuckerman.

7. Course Leading to B. Com.

Class I.—Laffoley, O'Meara. *Class II.*—Werry, Rutherford (J. B.), Shapira, Rutherford (W. K.), Blackman. *Class III.*—Dougall, Johnson, Lefkowitz (s).

FIRST YEAR.

PRIZE.

Adney, Francis Glenn.....Coster Memorial Prize.

(s) Supplemental in one subject.

PASSED THE FIRST YEAR EXAMINATIONS.

1. Course Leading to B.A.

Class I.—Willard, Pratt, Walter, LeMessurier. *Class II.* Foster, Cowan, Johnson, Wood-Legh, Stewart (A. E.), Spector, Crestohl, Dorken, Collins, Freedman, Freeman, Gittleson, Grigg (s), Gault; Ball (s) and Goldblatt, equal. *Class III.*—Banfill, Evans (K. J.), Slack, Figler (s), Fair and Howell (s), equal; Shlakman (s), Smith (s); Mettarlin (s) and Prudham (s), equal; Teed, Henderson, Shirriff, Ogilvy (s), Molson (s), Wadsworth (s), Allan, Ginn (s), Marsh (s), Fitch, Cross (s), Levinson (s), Perry; Wilson (W. H.) (s) and Beckwith, equal; Wighton, Pick (s), Holtham (s), McGerrigle (s), Campbell (E. D.) (s), Anderson (s), Russel (s), Epstein (s), Johnston (s).

2. Course Leading to B.Sc.

Class I.—Adney. *Class II.*—Mendelsohn, Lacowitsky, Liffiton, Canning. *Class III.*—Winn (s), Addleman (s), Paxton (s), Davidson, Knowlton, Freyvogel, Duval (R. H.), Finkelstein (s), Mitchell (s).

3. Course Leading to B.H.S.

Class I.—None. *Class II.*—None. *Class III.*—Reyner, Hodge (D. E.), (s).

4. Course Leading to B. Com.

Class I.—Holland, Tomalin, Caplan. *Class II.*—Kaplan, Nichol (G. H. G.), Shea, Dustan (s), Becker (s), Richter (s), Tyler, Burke, Shecter. *Class III.*—Mott (s), Kellnor (s), Clarkson (s), Jones.

GRANTED YEAR ON ACCOUNT OF ENLISTMENT.

(In alphabetical order.)

SECOND YEAR.

Goubjila (T. V.) (s).

FIRST YEAR.

Course Leading to B.A.

Amaron, Burnett, Craik, Egg, Heron, McIntyre, Moore (s), Puddicombe, Radmore, Read, Smith (J. R.), Strange, VanVliet, Way (s), Wells, Woodhouse (s).

Course Leading to B.Sc.

Bishop, Cantley, Mossman, Pye.

(s) Supplemental in one subject.

Course Leading to B. Com.

Aaronson, Benson (G. F.), Benson (W. D.), Cockshutt, Dobell, Drummond, Elderkin, Finley, Fraser, Hamilton, Hughes, Kee, Kirsch, Laffoley, MacKinnon, MacMahon, Meunier (s), Miller (s), Mullen, Munro, Nichol (J. M.), O'Brien, Phillips (s), Reid, Roussac, Skelton, Small (s), Smith (E. D.), Smith P. G.), Whittall.

STANDING IN THE SEVERAL SUBJECTS.

(Arranged alphabetically in order of Departments.)

DEPARTMENT OF BOTANY.

Course 2.

Class I.—Snyder, Henderson, Dart. *Class II.*—Kay. *Class III.*—MacFarlane.

Courses 4 and 6 (Part 1).

Class I.—Spier, Godwin, Higginson. *Class II.*—None. *Class III.*—None.

Courses 4 and 6 (Part 2).

Class I.—Godwin, Spier. *Class II.*—None. *Class III.*—Higginson.

Course 5.

Class I.—Higginson. *Class II.*—Kay. *Class III.*—None.

DEPARTMENT OF CHEMISTRY.

Course 1.

Class I.—Adney, Winn, Dart, Reid, Hannen, Weibel, Mendelsohn, Lacowitsky. *Class II.*—Finkelstein, Paxton, Martin; Holloway and Snyder, equal; Reilly, Bernstein; Leggatt and Liffiton and Mitchell and Rosenstein, equal; Tait and Tuffy, equal; Canning. *Class III.*—Freyvogel and Joseph and Smith (A. V.), equal; Bourgoin and Rosen, equal; Reyner; Campbell (E. M.) and Duval (R. H.) and Knowlton and Moock and Schwartzman, equal; McConnel (M.); Feilding and Miller, equal; Mansfield, Henderson, Rough; Hameroff and Howell, equal; Bagley and Boyd and Copland and Goldman and Hodge (D. E.) and Mathewson, equal.

Course 2.

Class I.—Phillips, Mirsky, Barnes (E. L.); McCall and Rabinovitch (J.), equal; Olding. *Class II.*—Larkin, Wilson (C.). *Class III.*—Richardson, Kay; Freedman (J.) and Roy, equal.

Course 3 (a).

Class I.—Spier, McCall, Alexander; Larkin and Steine, equal; Joseph, Godwin; Barnes (E. L.) and Olding, equal. *Class II.*—Gradinger and Wolepor, equal; Scheffer, Roy, Kennedy, McCulloch, Zuckerman, Levy, Kanigsberg. *Class III.*—None.

(s) Supplemental in one subject.

Course 3 (b).

Class I.—McCall, Foran, Larkin. *Class II.*—Barnes (L. L.) and Kennedy (W. R.), equal; Scheffer; Joseph and Roy, equal; Irwin, Olding, Alexander. *Class III.*—Wolfsohn, Zuckerman, Stone, McCulloch, Kanigsberg, Levy.

Course 4.

Class I.—Foran, Phillips, Mirsky; McCall and Vaughan, equal, Lreaux. *Class II.*—Rabinovitch (J.), Larkin; Donald and Olding, equal; Kay, Barnes (E. L.). *Class III.*—Freedman (J.); Roy, Richardson, Wilson (C.).

Course 5.

Class I.—McGlaughlin. *Class II.*—Hemming, Shaw. *Class III.*—Galley, Charlton.

Course 6.

Class I.—Hill, Rorke, Goddard, Davidson. *Class II.*—Hemming. *Class III.*—Rabinovitch (B.).

Course 7.

Class I.—Petersen (J. N.). *Class II.*—Rubin and Silver, equal; Rorke, Freedman (N. B.), Hill, Davidson. *Class III.*—Goddard.

Course 8.

Class I.—Rorke, Goddard, Hill. *Class II.*—Donald, Davidson. *Class III.*—Rabinovitch (B.).

Course 9.

Class I.—Hemming and Rorke, equal; Hill, Foran. *Class II.*—Davidson, Goddard, Irwin. *Class III.*—Joseph.

Course 10.

Class I.—McGlaughlin, Phillips, Spier, Hemming. *Class II.*—Godwin, Rorke, Hill. *Class III.*—None

Course 12

Class I.—Shaw. *Class II.*—McGlaughlin. *Class III.*—None.

Course 13

Class I.—Rorke, McGlaughlin; Hill and Shaw, equal. *Class II.*—Donald, Hemming, Davidson. *Class* III.—Goddard, Charlton.

Course 14.

Class I.—Rorke. *Class II.*—Shaw, Galley. *Class III.*—McGlaughlin, Charlton, Davidson, Hill.

Course 15.

Class I.—Rorke; Davidson and McGlaughlin, equal; Shaw, Hill, Charlton. *Class II.*—Donald, Galley. *Class III.*—None.

DEPARTMENT OF CLASSICS.

Greek: Course 1.

Class I.—None. *Class II.*—LeMesurier and Wood-Legh, equal; Ginn. *Class III.*—Edgecombe, McGerrigle, McLaren, Whitmore, Wilson (W. R.).

Greek: Course 3.

Class I.—Birkett and Shatford, equal; Collins. *Class II.*—Hall. *Class III.*—Norman; Anderson and Kneeland and White, equal.

Greek: Course 4.

Class I.—Kerr. *Class II.*—None. *Class III.*—None.

Greek: Course 5.

Class I.—None. *Class II.*—Holland. *Class III.*—None.

Greek: Course 7.

Class I.—Holland. *Class II.*—None. *Class III.*—None.

Latin: Course 1.

Class I.—Gittleson and Willard, equal; Cowan. *Class II.*—Foster, Freedman; Ball and Freeman and LeMessurier and Murray and Pratt and Walter and Wood-Legh, equal; Stewart (A. E.); Collins and Howell, equal; Spector; Dorken and Shlakman, equal; Cross and Douglas, equal; Figler and Henderson and Johnson (D. M.), equal. *Class III.*—Davidson, Campbell (L.); Crestohl and Goldblatt, equal; Addleman, Kerr, Shirriff; Bissett and Grigg and Marsh and Wisenberg, equal; Fitch and McPhail, equal; Banfill and Ginn and James and Prudham and Slack and Teed, equal; Fair and Levinson and Mettarlin and Smith (D. F.) and Wadsworth, equal; Campbell (E. D.) and Russel, equal; Beckwith; Allan and Beattie (M. T.) and McConnel (D. A.) and Scovil and Turner, equal; Calder and Kert and Klineberg and Moore (E. N.) and Wighton, equal; Collinge and Evans (K. J.) and Gault and Holtham and Pick and Wilson (W. R.), equal; Ditchfield and McGerrigle and Molson and Owens, equal; Stephenson and Superior, equal; Anderson and Brown and Bubroff and Campbell (F. R.) and Epstein and Johnston and McGibbon and McLellan and Wilson W. H.), equal.

Latin: Course 2.

Class I.—Kerr, Birkett; Shatford and Shea, equal; Elliot and Weibel, equal. *Class II.*—Reid; Harris and Holloway and Snyder, equal; Macklaier and McPartlin, equal; Stewart (A. I. M.), Anderson, Macrae (D.). *Class III.*—Henderson; Addy and Avison, equal; Foley and O'Hagan and Rohrlich, equal; Moore and Zealand, equal; McDonald and Pierce, equal; Howell, Caldwell, Sharples, Fry, Mathewson; Leslie and McGoun and Newnham and Riley and Symonds, equal; Banfill and Copland and Smith, equal; Klineberg; Gaboury and Johnson (A. S.) and Peterson, equal.

Latin: Course 3.

Class I.—Macdonald. *Class II.*—Wall; MacKinnon. *Class III.*—None.

Latin: Course 5.

Class I.—None. *Class II.*—Macdonald, Wall, MacKinnon. *Class III.*—None.

DEPARTMENT OF ECONOMICS AND POLITICAL SCIENCE.

Course 1.

Class I.—McGoun; Moule and Pierce, equal; Harris and Weibel, equal. *Class II.*—Cameron (G. M.), Banfill, Riley, Murray, Curtis, Foley, Peterson, Tait. *Class III.*—Anderson; Cahana and Rohrlich, equal; O'Hagan, Davis; Macrae (D.), Fraser; Avison and Cousens, equal; Copland and Wilder, equal; Ford (K. M.); Addy and Bullock and Gaboury and Hall and Henderson and Lidstone and McDonald and Macdougall (J. M.) and Rosenstein and Schafer and Smith (A. V.) and Teggart, equal.

Course 2.

Class I.—Fife and Mathers, equal; Raphael. *Class II.*—Rowat; Cameron (K. L.) and Kern (M. J.), equal; Taylor; Borden (H.) and Common and Smith (C. B.), equal; Caverhill, Stevenson, Davidson; Pratt and Ross, equal; Peterson (N. E.); Franklin and Smith (A. E.), equal; Townshend. *Class III.*—Sperber, Kern (L. W.), Echenberg.

Course 3.

Class I.—Borden (H.), Farthing, Kern (L. W.), Kern (M. J.), Pratt. *Class II.*—Ross; Raphael and Taylor, equal; Macnaughton, Davidson, Fife, Sperber, Caverhill; Cameron (K. L.) and Rowat, equal; Bunt (H.) and Campbell (S. D.), equal. *Class III.*—McCall; O'Brien and Smith (R. M.), equal; McMinn, Macdiarmid; Gillespie and McLean and O'Heir, equal; Stevenson, Common, Franklin.

Course 8.

Class I.—Fife and Raphael, equal; Borden (H.) and Caverhill, equal; Sperber. *Class II.*—Davidson (W. H.), Kern (L. W.); Ross and Taylor, equal; McLean; Common and Garrow, equal; Nichol (H. R. H.) and Rowat and Smith (C. B.), equal; Kern (M. J.) and Pratt, equal; Cameron (K. L.) and DiFlorio and O'Brien, equal. *Class III.*—Duncan, Greaves, Martin, Franklin; Echenberg and Henry, equal.

Course 9.

Class I.—Farthing, Fife; Borden (H.) and Raphael and Taylor, equal. *Class II.*—Kern (M. J.); Kern (L. W.) and O'Brien, equal; Pratt; Davidson (W. H.) and Nichol (H. R. H.) and Ross, equal; Rowat; Cameron (K. L.) and Caverhill and Sperber, equal; McDougall, Common. *Class III.*—Greaves, Martin, Franklin, Echenberg.

Course 10.

Class I.—Freedman (L. K.) and Peterson (N. E.), equal; Ewing, Cameron (S.). *Class II.*—Nichol (H. R. H.); O'Brien and Smith (C. B.), equal; McDougall, Henry. *Class III.*—Greaves, Townshend; Duncan and Martin, equal.

Course 11.

Class I.—None. *Class II.*—Duncan and O'Brien, equal; Nichol (H. R. H.) and Townshend, equal; Henry. *Class III.*—Greaves, Martin.

Course 12.

Class I.—None. *Class II.*—O'Brien and Townshend, equal. *Class III.*—Duncan, Nichol (H. R. H.), Adair, Martin, Henry, Greaves.

DEPARTMENT OF EDUCATION.

Course 1.

Class I.—Mawdsley, Nichol (J.); MacKinnon and Macnaughton, equal. *Class II.*—Scott, Imrie, McDougall, Lalond, Savage; Latham and McMillan (M.) and Reid (J.) and Wilson, equal. *Class III.*—McMillan (H.), Henry.

Course 2.

Class I.—Wiseman. *Class II.*—Cameron (K. L.) and Symonds, equal; Barnes (D. S.) and Davidson, equal; Campbell (S. D.) and Silverman, equal; Cockfield and Larkin and Mills, equal; Holland; Imrie and Latham and Thornton, equal; Rexford, McGreer. *Class III.*—Contant, Deery, Duncan, Rorke, Ford (R. H.); Ford (C.) and Foster and Macdiarmid, equal; McPherson, Goddard.

DEPARTMENT OF ENGLISH.

Course 1.

Class I.—Willard, Fitch, Slack, Walter; Collins and Davidson and Freeman and Ginn and Gittleson and Hudon and Johnson (D. M.) and Roy, equal. *Class II.*—James, Owens; Shlakman and Wilson (W. H.), equal; Canning and Collinge and Grigg and Paxton, equal; Allan and Anderson and Cowan and Kydd and Stewart (D. L.), equal; Calder and Crestohl and Montgomery and Wilson (W. R.), equal; Banfill and Reyner, equal; Figler and Hodge (E. A.), equal; Adney and Cross and Gault, equal; Fullerton and Ogilvy and Reilly, equal; Dobbie and Livingstone and Wood-Legh, equal; Addleman and Foster and Fraser and Henderson and Laidlaw and MacDonnell and Teed and Wadsworth, equal; Bissett and Ditchfield and Feilding and Jackson (H. N.) and Kerr and Leggatt and Pratt and Prudham and Russel and Winn, equal. *Class III.*—Brankley and Douglas and Magee and Scovil, equal; Bernstein and Campbell (L.) and Epstein and McLaren and Moore (E. N.) and Stephenson and Wighton, equal; Ball and Beckwith and Freedman and Freyvogel and Knowlton and Lamb and Wisenberg and Young,

equal; Hodge (D. E.) and Lacowitsky and McPhail and Pick and Rosen and Shirriff and Wilder, equal; Duval (R. H.) and Evans (K. J.) and Liffiton and Perry and Spector, equal; Beattie (M. T.) and McConnel (D. A.) and McEwen and Shatford (R. A.) and Simpson and Stewart (A. E.), equal; Fair and LeMessurier and Mitchell and Schwartzman and Smith (D. F.), equal; Hoover and Miller and West, equal; Evans (A. L.); Bubroff and Campbell (E. D.) and Dorken and Forsyth and Holtham and McGerrigle and McGibbon and Maclean, equal; Hannen; Campbell (E. M.) and Edgecombe and Hameroff and Levinson and Marsh and Mettarlin and Turner, equal; Campbell (F. R.) and Johnston and Martin (D. G.), equal; Macnab and Mendelsohn and Shillington, equal; Klineberg and Martin (S. A. V.), equal; Howell and Matts and Rabinovitch, equal; Beattie (J. R.) and Fridman and Hutcheson, equal; Boyd and Laurin, equal; Ballantyne and Clark (H. S.) and Clarke (V.) and Finkelstein and Kert and Molson and Murray and Pye and Superior, equal; Goldblatt and McAvoy and Norman, equal.

Course 2 (Men).

Class I.—Walter, Spector, Freeman, Willard, Davidson. *Class II.*—Figler, Addleman, Lacowitsky; Adney and Mettarlin, equal; Goldblatt and McGerrigle and Ogilvy, equal; Collins, Cowan; Duval (R. H.) and Marsh, equal; Molson; Levinson and Mendelsohn, equal; Johnson; Gault and Holtham and Jackson (H. N.) and Livingstone, equal; LeMessurier; Crestohl and Wadsworth and Wilson (W. H.), equal. *Class III.*—Moore (E. N.); Ginn and Henderson, equal; Allan and Fullerton, equal; Epstein and Forsyth, equal; Martin (S. R.), Fraser, Calder, West; Hudon and Miller and Norman and Wilson (W. R.), equal; Rosen; Anderson and Ballantyne and Howell, equal; Boyd and Clark (H. S.) and Simpson, equal; Finkelstein and McGibbon and Stephenson, equal; Boulanger and Edgecombe and McAvoy and Martin (D. G.) and Owens and Prudham and Winn, equal.

Course 2 (Women).

Class I.—Douglas and Foster and Pratt, equal; Fair, Laidlaw, McPhail, Liffiton, Freedman, Teed; Evans (K. J.) and Wood-Legh, equal; Paxton and Slack, equal; Bissett and Wisenberg, equal; Grigg and James and Kerr and Pick and Shlakman, equal. *Class II.*—Ball and Beckwith and Campbell (L.) and Dorken, equal; Banfill and Reyner, equal; Canning and Kydd and Stewart (A. E.), equal; Magee; McConnel (D. A.) and Scovil, equal; Leggatt; MacDonnell and Russel, equal; Matts, Campbell (E. D.) and Gittleson, equal; Montgomery and Reilly, equal. *Class III.*—McEwen and Turner, equal; Fridman; Jenkins and Wighton, equal; Beattie (M. T.) and Brankley, equal; Maclean; Cross and Ditchfield and Dobbie, equal; Campbell (E. M.) and Smith (D. F.), equal; Lamb; Fitch and Roy and Shirriff, equal; Evans (A. L.) and Hodge (D. E.), equal; Freyvogel, Knowlton; Laurin and Rabinovitch, equal; Johnston, Murray, Mitchell, Clarke; Wilder and Young, equal.

Course 3 (Men).

Class I.—White, Moore; Cousens and Harris and Kennedy and Kerr and Macklaier and Peterson, equal. *Class II.*—Lidstone, Bunt (L. O.); Anderson and Murray and O'Hagan, equal; Kanigsberg and Rosenstein, equal; Bullock and Copland, equal; Alexander; Fraser and Johnson (A. S.) and Symonds, equal; McDougall (J. M.) and Wolepor, equal; Avison and Davis and Pierce, equal; Hall and Johnston (C. F.) and Shea, equal; McCulloch. *Class III.*—Bussiere and Higinbotham and Mathewson, equal; Bourgoin and Caldwell and Gaboury and Steine, equal; Rohrlich; Leslie and Richards, equal; Zuckerman; Badger and McDougall (G. S.) and Scheffer, equal; Addy and Kneeland and Stanway, equal; Elliot, Gradinger, Barrett, Schafer.

Course 3 (Women).

Class I.—Shatford, Weibel, Millen, Levy, Reid (J. L.), Riley, Fry; Birkett and Sharples, equal; McGoun and Stewart (A. I. M.), equal. *Class II.*—Foley, Hibbard; Medbury and Newnham, equal; Macrae (D.), Mansfield, McPartlin; Henderson and Snyder, equal; Tuffy; Banfill and MacDonald and MacRae (S. E.) and Tait and Wilson (C. R.), equal; Brown and Klineberg and Palmer and Teggart, equal. *Class III.*—Ayer and Brooke and Howell, equal; Holloway and Rough, equal; Joseph, Zealand, Smith (A. V.).

Course 4.

Class I.—Mathers and Shatford, equal; Reid (J. L.); Kerr and Newnham, equal; Harris; Birkett and Cousens, equal; Riley, Macrae (D.), Joseph, Mills, Murray. *Class II.*—Foley and Fry and Gaboury, equal; Avison and Howell and Johnston (C. F.) and Palmer and Rough and Shea and Symonds, equal; Banfill and Davis and Mansfield, equal; O'Hagan and Sharples, equal; Peterson and Wilson (C. R.), equal; Brooke; Hall and McPartlin, equal; Anderson; Klineberg and Livingstone and Tait, equal; Bunt (L. O.) and Smith (A. V.) and Zealand, equal. *Class III.*—Caldwell and Kneeland and Moore, equal; Stewart (A. I. M.), MacRae (S. E.), Bagley, Bullock, Brown; Ayer and Fraser and Higinbotham, equal.

Course 5.

Class I.—Hacket, Cockfield, Barnes (D. S.). *Class II.*—Borden (E. L.), Latham; Bagg and Gillespie, equal. *Class III.*—Stevenson, Reid, Willson; Farthing and Ford (R. H.), equal.

Course 6.

Class I.—Macdonald and Nichol (J.), equal; Macnaughton; Barnes (D. S.) and Cockfield, equal; Ewing; Imrie and Moule, equal; Hackett and Moody and Wilson, equal. *Class II.*—Gillespie and Wiseman, equal; Ford (C.) and Husk and Latham and O'Brien, equal; Borden (E. L.) and Campbell (S. D.) and Freedman (L. K.) and McMillan (M.), equal; McMillan (H.); Cameron (G.

M.) and Reid (J.), equal; Bagg and Barnard, equal; Farthing and Lewis, equal; Ford (K. M.), Savage; Morrison and Reid (R. V.) and Symonds and Willson, equal. *Class III.*—McGreer, Macdiarmid, Foster, Bunt (L. O.), Deery, McIntosh, DiFlorio.

Course 7

Class I.—Cameron (S. S.) and Cockfield, equal; Hackett and Nichol (J.), equal; Freedman (L. K.) and Moody, equal; Farthing, Campbell (D.); Barnes (D. S.) and Ford (R. H.), equal. *Class II.*—Husk, Gillespie, McGreer, Deery; Bagg and Harvey, equal; Ford (C.) and Lewis, equal; Mathewson. *Class III.*—Ford (K. (M.); Borden (E. L.) and Hébert and O'Heir, equal; Macdiarmid and Stevenson, equal; Cameron (G. M.), Foster.

Course 9.

Class I.—None. *Class II.*—Latham, Duncan. *Class III.*—None.

Course 10.

Class I.—Mawdsley, Meyer, Novick, Moody, Ewing, Imrie; Savage and Scott, equal; Latham and Macnaughton, equal. *Class II.*—McMillan (H.) and Wilson, equal; McMillan (M.), McKinnon; DiFlorio and Macdonald and McLean, equal. *Class III.*—None.

Course 11.

Class I.—Cameron (S. S.) and Macdonald, equal; Freedman (L. K.). *Class II.*—None. *Class III.*—None.

Course 12.

Class I.—Ewing and Mawdsley, equal; Moody, Wiseman; Cameron (S. S.) and DiFlorio, equal; Meyer and Novick, equal; Imrie. *Class II.*—Hébert and Nichol (J.), equal. *Class III.*—None.

Course 13.

Class I.—None. *Class II.*—Harvey. *Class III.*—Mathewson, Hébert.

Course 14.

Class I.—Meyer, Novick, Macdonald. *Class II.*—Moody. *Class III.*—None.

Course 15.

Class I.—Harvey. *Class II.*—Moody, Farthing, McIntosh; Bunt (L. O.) and Mathewson, equal. *Class III.*—McGreer, Ford (R. H.).

Course 16.

Class I.—Mawdsley, Wiseman, Scott, Moody; Cameron (S. S.) and Freedman and Mathewson, equal. *Class II.*—Reford, Hébert, Harvey, Lewis. *Class III.*—None.

Course 19.

Class I.—Hackett, Wiseman; McMillan (M.) and Meyer, equal; Cockfield and Macnaughton and Moody, equal; Mawdsley; McMillan (H.) and Moule, equal. *Class II.*—Novick; Campbell (S. D.) and Imrie, equal; Reid (J.); Barnes (D. S.) and Barnard, equal; Deery and Wilson (A. E.), equal; Macdiarmid and Willson (R. E.), equal; Ford (C.) and McIntosh, equal; Bagg and Cameron (G. M.) and Scott, equal. *Class III.*—Foster; Borden (E. L.) and Ford (K. M.) and Savage, equal; Fitzsimons and Husk and McRae, equal; Reid (R. V.), Ford (R. H.).

Course 20.

Class I.—Nichol (J.). *Class II.*—Ford (C.), Husk, O'Heir. *Class III.*—None.

DEPARTMENT OF GEOLOGY.

Course 1.

Class I.—Phillips; Armstrong and Gillespie, equal; McLean; Cameron (G. M.) and Mills, equal; Holloway and Wilson (C. R.), equal; McMinn, Barnes (E. L.); Ford (C.) and Foster, equal; Stevenson. *Class II.*—Barnes (D. S.); Hibbard and White, equal; Kneeland and Smith (C. B.), equal; Contant, Ford (K. M.), Campbell; Deery and Willson (R. E.), equal. *Class III.*—Borden (E. L.), Bunt (L. O.); Kelly and McGreer, equal; Macdiarmid; Ford (R. H.) and McIntosh, equal; Falconer, Lewis, Barrett.

Course 2.

Class I.—Duncan, McMillan (M.) and Scott, equal; McMillan (H.), Ewing, Wilson. *Class II.*—Lalond, Imrie, Peterson. *Class III.*—Reid (J.), DiFlorio, Savage, Morrison.

Course 3.

Class I.—Dart, McMillan (M.). *Class II.*—McMillan (H.), Reid (J.). *Class III.*—Morrison.

Course 4.

Class I.—Dart, McMillan (H.). *Class II.*—McMillan (M.). *Class III.*—Reid (J.).

Course 5.

Class I.—Phillips, Dart, McCall. *Class II.*—Shaw, Olding. *Class III.*—Charlton.

Course 6.

Class I.—Shaw, McGlaughlin; Dart and McCall and Phillips, equal; Charlton, Olding. *Class II.*—None. *Cass III.*—None.

Course 10.

Class I.—Dart. *Class II.*—None. *Class III.*—None.

DEPARTMENT OF HISTORY

Course 1.

Class I.—Foster, Willard, Shlakman, Dorken, Fair, Pratt, Stewart (A. E.); Campbell (L.) and Henderson, equal; Grigg and Howell and Spector, equal; LeMessurier. *Class II.*—Smith; Addleman and Johnson (D. M.) and Laidlaw, equal; Evans (K. J.) and Freeman and Wood-Legh, equal; Walter; Fraser and Prudham and Wadsworth, equal; Davidson and Freedman and Perry and Scovil, equal; Slack and Wilson (W. H.), equal; Montgomery; Douglas and Kydd and Pick and Shirriff, equal; Campbell (E. D.) and Levinson and Palmer, equal; Cowan and Gault, equal; Collins; Goldblatt and MacDonnell and Moore (E. N.) and Ogilvy, equal; Anderson and Banfill and Bissett and Holtham and McPhail, equal. *Class III.*—West, Matts; Fullerton and Ginn and Johnston (J. L.), equal; Magee and Teed, equal; Cross and Fridmann and McEwen, equal; Kert and Russel and Wisenberg, equal; Beckwith and Duval (I. B.) and Evans (A. L.) and Figler and Kerr and McConnel (D. A.), equal; Clark (H. S.) and Edgecombe and Ellison and Mettarlin and Murray and Norman, equal; Ball; Bubroff and Crestohl and Laurin and Wighton, equal; Marsh and Stephenson, equal; Ballantyne and Ditchfield and Dobbie and Turner, equal; Beattie (M. T.) and Hodge (E. A.) and Hutcheson, equal; McGerrigle and Shillington, equal; Gittleson and James and Klineberg and Lamb, equal; Campbell (F. R.) and Fitch and Martin (S. A. V.) and Owens and Simpson, equal; Clarke (V.) and Hoover and McGibbon and Molson, equal; Allan and Epstein and Forsyth and Roy and Young, equal.

Course 2.

Class I.—McGoun, Bunt (H.), Riley, Reid, Harris, Macrae (D.); Banfill and Peterson, equal; Rohrlich; Anderson and Avison, equal; Davis and Foley and Murray and Rosenstein, equal. *Class II.*—Hall; Copland and Mills, equal; Cousens, McDougall (J. M.), McDonald, Tait, McPartlin; Johnston (C. F.) and Joseph and Lidstone, equal. *Class III.*—Brown, Howell; Addy and Teggart, equal; Ayer, Barrett, MacRae (S. E.), Fraser; McDougall (G. S.) and Webster, equal; Livingstone and Mansfield and O'Hagan and Smith, equal.

Course 5.

Class I.—Nichol (J.), Cockfield, Moule, Peterson (N. E.), Holland, Mills. *Class II.*—Hackett, Smith (R. M.), Wilson, Bagg, Reid (J.). *Class III.*—McDougall, Husk.

Course 7.

Class I.—Hackett, Holland, Nichol (H. R. H.), Cockfield, Lyons, Barnes (D. S.). *Class II.*—Bagg and Bunt (H.), equal; Scott and Smith (C. B.), equal; Morrison, Mills, Deery, Curtis; Borden (E. L.) and Ford (C.) and Gillespie and Imrie, equal. *Class III.*—Henry and Willson, equal; Husk and Smith (R. M.), equal; Ford (K. M.).

Course 8.

Class I.—Nichol (J.), Cameron (S. S.). *Class II.*—None. *Class III.*—None.

Course 9.

Class I.—Nichol (J.), Hackett, Freedman; Cameron (S. S.) and Holland, equal; McDougall. *Class II.*—Cameron (K. L.) and Davidson and Kern (M. J.) and Moule, equal; Ewing; Cockfield and Kern (L. W.), equal; Borden (H.) and Bunt (H.), equal; O'Heir and Ross and Townshend, equal; McMillan (M.); Bagg and Pratt and Savage, equal; Mathers, Macnaughton, Wilson (A. E.); McMillan (H.) and Scott, equal. *Class III.*—Husk, Reid (J.).

Course 10.

Class I.—Freedman (L. K.), Peterson (N. E.); Greaves and Taylor, equal. *Class II.*—Smith; Duncan and Lalond, equal; O'Brien, Townshend, Martin, DiFlorio. *Class III.*—None.

DEPARTMENT OF MATHEMATICS.

Course 1: Algebra.

Class I.—Mendelsohn and Smith (D. F.) and Walter, equal; Canning and Cowan and Foster and Plow and Stewart (D. L.), equal; Munro (W. D.); Crestohl and Gittleson and Hannen, equal; Laidlaw and Pratt and Shatford, equal; Grigg, Calder; Duval (R. H.) and Fraser, equal; Lacowitsky and Smith (F. M.), equal; Fensom; Finkelstein and Rosen, equal; Allan and Spector, equal. *Class II.*—Gault and MacDonnell, equal; Stewart (A. E.); Freedman and Molson, equal; Evans (A. L.) and LeMessurier and MacNab, equal; Reyner; Clark (H. S.) and Coyle and Hudon, equal; Collins and Dorken and Ogilvy, equal; Epstein and Fitch and McIntyre and Marsh, equal; Shirriff and Wilson (W. H.), equal; Boyd, Martin (D. G.); Figler and Palmer, equal; Campbell (E. M.) and Davidson, equal. *Class III.*—Wighton; Collinge and Holtham, equal; Hodge (D. E.) and McEwen, equal; Ballantyne (C. T.) and Hameroff and Hutcheson, equal; Freyvogel and Kerr, equal; Bernstein and Dobbie, equal; Evans (K. J.) and Hoover, equal; Perry, Liffiton; Beckwith and Bissett and Fair and Laurin, equal; Brankley; Knowlton and Kydd, equal; McPhail, Moore (E. N.); Banfill and Levinson and Montgomery and Slack, equal; Anderson and Owens and Shillington, equal; Edgecombe, Reilly; Ginn and Goldblatt and Martin (S. A. V.) and Mettarlin, equal; Bubroff and Douglas (F. M.) and Forsyth and Henderson and Magee and Superior and Teed, equal.

Course 1: Geometry.

Class I.—Gittleson, LeMessurier; Mendelsohn and Rosen and Schwartzman, equal; Canning and MacDonnell, equal; Stewart (D. L.); Freeman and Reilly and Smith (J. R.), equal; Foster and Moore (E. N.), equal; Crestohl and Ogilvy, equal; Hannen and Leggatt and Walter, equal; Fraser and Laidlaw, equal;

Gault, Mossman, Anderson; Evans (K. J.) and MacNab, equal. *Class II.*—Dorken; Figler and Fitch and Molson, equal; Allan and Goldblatt and Palmer and Read, equal; Grigg, Hamcroft, Lacowitsky; Beattie (M. T.) and Edgecombe and Perry and Spector, equal; Cowan and Wadsworth, equal; Clarke (V. M.) and Shatford, equal; McGibbon, Heron; Clark (H. S.) and Craik and Hoover and Kerr and Roy, equal; Epstein and Puddicombe and Teed, equal; Lamb and Paxton and Slack, equal; Collinge and Duval (R. H.) and Henderson and Radmore and Shillington and Stephenson and Wilson (W. H.), equal. *Class III.*—Beckwith and Collins and Hodge (D.) and Hutcheson and Knowlton and MacFarlane and Magee and Wilson (W. R.), equal; Fensom, Boyd; Bubroff and Moore (A. F.), equal; Freedman and Howell and McEwen and Miller, equal; Woodhouse, Kydd; Bissett and Fair and Rabinovitch and VanVliet, equal; Amaron and Bernstein (J. C.) and Mick and Russel, equal; Feilding and Owens and Plow and Simpson, equal; Hudon and McGerrigle and Mettarlin, equal; Beattie (J. R.) and Davidson, equal; Cross and Dobbie and Forsyth and Holtham and Matts, equal; Levinson and Murray and Way and Wells, equal; Addleman and Ballantyne (C. T.) and Banfill and Chisholm and Fullerton and Kert, equal; Ball and Evans (A. L.) and Finkelstein and McIntyre and Peck and Reyner, equal.

Course 1: Trigonometry.

Class I.—Evans (A. L.) and LeMessurier, equal; Canning, Lacowitsky; Mendelsohn and Stewart (D. L.), equal; Gault and Pratt and Smith (D. F.) and Stewart (A. E.), equal; Perry, Shatford, Foster, Evans (K. J.), Walter; Fensom and MacDonnell, equal; Allan and Laidlaw, equal. *Class II.*—Smith (F. M.); Dorken and Freyvogel, equal; Cowan and Hannen, equal; Munro (W. D.); Collins and Crestohl and Shirriff, equal; Ogilvy; Finkelstein and Liffiton, equal; Rosen; Knowlton and Marsh, equal; Fraser. *Class III.*—Beattie (M. T.); Freedman and Gittleson and Spector and Wilson (W. H.), equal; MacNab and Plow, equal; Epstein and Wighton, equal; Calder and Davidson and Palmer and Teed, equal; Fair and Howell, equal; Banfill and Marsh, equal; Paxton; Holtham and Schwartzman and Shillington, equal; Brankley and Slack, equal; Coyle and Fullerton, equal; Edgecombe and Reyner, equal; Campbell (F. R.) and Henderson, equal; Clarke (V. M.); Beattie (J. R.) and Dobbie and Duval (R. H.) and Kydd and Montgomery, equal; Beckwith and Brown (M. C.) and Hudon and McEwen and Shlakman and Turner, equal.

Course 2: Algebra, Trigonometry, Theory of Equations.

Class I.—Adney, Johnson (D. M.), Willard, Freeman. *Class II.*—Feilding; Prudham and Winn, equal. *Class III.*—Mitchell.

Course 3: Advanced Geometry.

Class I.—Adney and Willard, equal; Johnson (D. M.), Feilding. *Class II.*—Freeman and Prudham, equal; Mitchell. *Class III.*—Winn; Freyvogel and Liffiton and Wighton, equal.

Course 3: Algebra.

Class I.—Smith (R. M.), Snyder, Macklaier, Elliot. *Class II.*—Higinbotham, Tuffy, Hibbard. *Class III.*—Holloway, Leslie, Henry, Johnson (A. S.).

Course 3: Geometry.

Class I.—Snyder, Leslie, Holloway. *Class II.*—Smith (R. M.), Higinbotham, Macklaier. *Class III.*—Stewart (A. I. M.), Henry; Elliot and Tuffy, equal.

Course 4: Analytical Geometry.

Class I.—Foran and Tuffy, equal. *Class II.*—Larkin. *Class III.*—Joseph.

Course 4: Calculus.

Class I.—None. *Class II.*—Foran, Tuffy. *Class III.*—Joseph and Larkin, equal.

Course 5.

Class I.—Smith (R. M.), Joseph, Tuffy, Leslie. *Class II.*—Roy. *Class III.*—Galley.

Course 6.

Class I.—Tuffy. *Class II.*—Smith (R. M.). *Class III.*—Joseph.

Course 7: Analytical Geometry of Three Dimensions.

Class I.—McPherson. *Class II.*—Thornton, Galley. *Class III.*—None.

Course 7: Calculus.

Class I.—None. *Class II.*—McPherson, Thornton. *Class III.*—Galley.

Course 8: Functions of a Complex Variable.

Class I.—Douglas. *Class II.*—None. *Class III.*—None.

Course 8: Functions of a Real Variable.

Class I.—Douglas. *Class II.*—None. *Class III.*—None.

Course 12.

Class I.—None. *Class II.*—McPherson and Thornton, equal. *Class III.*—None.

DEPARTMENT OF MODERN LANGUAGES.

French: Course 1.

Class I.—Banfill and Holland and James and Willard, equal. *Class II.*—Freedman; Cameron (E. W.) and Dorken and Perry and Pratt, equal; Howell, Shea; Hudon and Wadsworth, equal; Caplan and Tomalin and Wisenberg, equal; Addleman and Foster and Richter and Shlakman, equal; Campbell (L.) and

Figler and Spector, equal. *Class III.*—Ball and Cross and McLaren, equal; Davidson and Goldblatt and Shecter, equal; Bissett and Evans (K. J.) and Fensom and Gault and Grigg and Slack, equal; Campbell (E. D.) and Fitch and Goodkowsky and Kerr and Kert, equal; Dobell and Johnson (D. M.) and Wood-Legh, equal; Fair and Moore (E. N.) and Morphy, equal; Gittleson; Johnston and Kydd and Pepin and Stewart (A. E.), equal; Kaplan; Falconer (K.) and Ginn and Kellnor and Mettarlin and Pick and Webster and West, equal; Clark (H. S.) and Levinson and Tyler and Wilson (W. R.), equal; Crestohl and Ditchfield and Teed, equal; Beckwith and Calder and Clarkson and Collinge and Kee and Wighton, equal; Owens and Simpson, equal; Campbell (F. R.) and Henderson and Marsh, equal; Ogilvy and Palmer and Superior, equal; Martin (S. A. V.); Allan and Ballantyne (C. T.) and Burke and Epstein and Freeman and Jenkins and Jones and Matts and Russel and Shillington and Shirriff and Stephenson, equal.

French: Course 1, Advanced.

Class I.—McConnel (D. A.), Walter, Comings, Cowan. *Class II.*—Douglas, Molson, Roy, Murray; Klineberg and Lamb, equal. *Class III.*—Laurin.

French: Course 2.

Class I.—Mendelsohn; Knowlton and Liffiton and Reyner, equal. *Class II.*—Feilding; Adney and Leggatt, equal; Boyd and Canning and Martin (D. G.), equal. *Class III.*—Freyvogel and Lacowitsky and McConnel (M.), equal; Campbell (E. M.) and Paxton, equal; Hameroff, Mitchell, Duval (R. H.), Schwartzman, Beattie (J. R.), Miller, Hodge (D. E.), Pye.

French: Course 3.

Class I.—Shea, Macrae (D.). *Class II.*—Macklaier and Symonds, equal; Bourgoin, Newnham, Riley, Elliot; Harris and McGoun and Snyder and Weibel, equal; Pierce, McPartlin. *Class III.*—Mansfield; Joseph and Lyall and Rough, equal; Johnson (A. S.) and Macdonald, equal; Henderson, Mathewson; Aylen (L.) and Leslie, equal; Lidstone, Brooke, Schafer, MacRae (S. E.); Teggart and Webster, equal; Howell; Addy and Badger and Rohrlich, equal.

French: Course 3, Advanced.

Class I.—Comings and Shatford, equal; Birkett and Sharples, equal. *Class II.*—Aylen (D. E.), Bullock, Klineberg; Banfill and Fry, equal. *Class III.*—Copland and Gaboury, equal.

French: Course 7, Third Year.

Class I.—Moule and Raphael, equal. *Class II.*—Silverman, Harvey, Contant, Mathewson, Hébert. *Class III.*—Common and Franklin, equal; Rowat, Lewis.

French: Course 7, Fourth Year.

Class I.—Novick, Wall. *Class II.*—MacKinnon, Caverhill. *Class III.*—Latham, Mathers.

French: Course 8, Third Year.

Class I.—Silverman. *Class II.*—Harvey. *Class III.*—Mathewson.

French: Course 8, Fourth Year.

Class I.—Wall. *Class II.*—Novick. *Class III.*—None.

French: Course 9, Third Year.

Class I.—Hébert, Contant. *Class II.*—None. *Class III.*—Harvey; Mathewson and Silverman, equal.

French: Course 9, Fourth Year.

Class I.—Wall, Novick. *Class II.*—None. *Class III.*—None.

French: Course 11, Third Year.

Class I.—Hébert. *Class II.*—Harvey, Silverman, Contant, Mathewson. *Class III.*—None.

French: Course 11, Fourth Year.

Class I.—Novick, Wall. *Class II.*—None. *Class III.*—None.

German: Course 1a.

Class I.—Goldblatt, Addleman, Crestohl. *Class II.*—Mettarlin, Kert. *Class III.*—Klineberg; Douglas and Fitch, equal; Davidson.

German: Course 1b.

Class I.—Liffiton. *Class II.*—Adney; Irwin and Millen, equal; Finkelstein and Lacowitsky, equal. *Class III.*—Mendelsohn and Miller, equal; Hannen; Canning and Reyner, equal; Knowlton and Paxton, equal; Winn, Hodge (D.), Schwartzman, Hameroff.

German: Course 2.

Class I.—Ball. *Class II.*—Dorken, Wisenberg, Campbell (L.). *Class III.*—McConnel (D. A.).

German: Course 3.

Class I.—Hershon, Rabinovitch. *Class II.*—None. *Class III.*—Smith (F. M.), Feilding.

German: Course 4.

Class I.—None. *Class II.*—Brooke, Klineberg. *Class III.*—None.

German: Course 6, Third Year.

Class I.—Silverman. *Class II.*—None. *Class III.*—None.

German: Course 6, Fourth Year.

Class I.—Meyer. *Class II.*—None. *Class III.*—None.

German: Course 7, Third Year Honours.

Class I.—None. *Class II.*—Silverman. *Class III.*—None.

German: Course 7, Fourth Year Honours.

Class I.—Meyer. *Class II.*—None. *Class III.*—None.

German: Course 8, Third Year Honours.

Class I.—Silverman. *Class II.*—None. *Class III.*—None.

German: Course 8, Fourth Year Honours.

Class I.—Meyer. *Class II.*—None. *Class III.*—None.

DEPARTMENT OF ORIENTAL LANGUAGES.

Course 1.

Class I.—Moore, White. *Class II.*—Hall, Litchfield. *Class III.*—Davis.

Course 5.

Class I.—Lalond. *Class II.*—None. *Class III.*—None.

Course 6.

Class I.—Lalond. *Class II.*—None. *Class III.*—None.

DEPARTMENT OF PHILOSOPHY.

Educational Psychology.

Class I.—Wiseman, Mawdsley. *Class II.*—Curtis. *Class III.*—Adair.

Course 1.

Class I.—Macklaier, Newnham. *Class II.*—Contant, McMinn, McGoun; Fry and Kerr, equal; Leslie and O'Hagan, equal; Lidstone; Bunt (H.) and Johnston (C. F.), equal. *Class III.*—Richards, McDonald, Peterson (F. O.); McPartlin and Murray, equal; Foley and Ford (R. H.) and Higinbotham and Kneeland and Pierce, equal; Bullock and Webster, equal; Anderson and McDougall (J. M.) and Moore, equal; Barnes (D. S.); Rohrlich and Savage and Stewart (A. I. M.), equal. Elliot and Gaboury and Harris and Rosenstein, equal; Avison and Badger, equal; Cousens and Deery and Livingstone and Shea, equal; Reid (R. V.); McAvoy and Robson, equal; Borden (E. L.) and Brown (F. T.) and Bunt (L. O.) and Caldwell and McDougall (G. S.), equal.

Course 2.

Class I.—Reid (J. L.), Kerr. *Class II.*—McGoun, Bunt (H.); Elliot and Macklaier, equal; Stewart (A. I. M.). *Class III.*—Lidstone, Peterson (F. O.), Bullock; Fry and Leslie, equal; Kneeland; Cahana and McDonald (A. C.) and Sharples, equal; Shea, McDougall (J. M.); Copland and Mathewson, equal; Anderson and Foley and Gaboury and Rohrlich and Rosenstein and Webster, equal.

Course 3.

Class I.—Shatford (R. M.); McMinn and McPartlin, equal. *Class II.*—Contant and Newnham, equal; Murray, Livingstone, Higinbotham, Johnston (C. F.); Avison and Cousens, equal; O'Hagan. *Class III.*—McAvoy.

Course 4.

Class I.—Farthing; Fife and McMinn, equal; McDougall and McLean, equal. *Class II.*—Mullen and Peterson (N. E.), equal; Cameron (G. M.). *Class III.*—None.

Course 6.

Class I.—Lalond, Morrison. *Class II.*—Sutherland. *Class III.*—Reford.

Course 7.

Class I.—Wiseman. *Class II.*—Mawdsley, Sperber. *Class III.*—Curtis; Morrison and Reford, equal.

Course 8.

Class I.—Wiseman, Mawdsley. *Class II.*—None. *Class III.*—Reford.

Course 12.

Class I.—None. *Class II.*—Curtis. *Class III.*—None.

DEPARTMENT OF PHYSICS.

Course 1.

Class I.—Adney, LeMessurier, Crestohl, Willard, Winn, Johnson (D. M.); Grigg and Pratt, equal. *Class II.*—Prudham, Freeman; Stewart (A. E.) and Stewart (D. L.), equal; Fensom and Spector, equal; Foster, Cowan; Clark and Hannen, equal; Reilly; Mendelsohn and Stewart (A. I. M.), equal; Beattie (M. T.); Gault and Walter, equal; Smith (D. F.). *Class III.*—Duval (R. H.) and Shirriff, equal; Ball and Banfill and Gittleson and Marsh and Perry and Pick and Teed, equal; Collins and Lacowitsky and Slack and Wilson (W. H.), equal; Boyd; Hackett and Ogilvy and Stephenson, equal; Fullerton and Laidlaw and Reyner, equal; Allan and Canning and Evans (A. L.) and Knowlton and Moock, equal; Dorken and Figler and Henderson and Hodge (D. E.) and Kert and MacDonnell and McPhail, equal; Fair and Finkelstein and Freedman and Holt-

ham and Hoover and Liffiton, equal; Campbell (F. R.) and Cross and Freyvogel and Goldblatt and Johnston (J. L.) and Molson and Wilson (W. R.), equal; Bernstein and Campbell (E. D.) and Matts and Montgomery, equal; Beckwith and Collinge and Fitch and Levinson and Munro (W. D.) and Paxton and Rosen and Schwartzman and Shillington and Wighton, equal; Anderson and Bubroff and Elliot and Evans (K. J.) and Hameroff and Mitchell and Shlakman and Turner, equal; Fraser and Ginn and Leggatt and Martin (D. G.), equal; Edgecombe and Howell and Jackson and Martin (S. A. V.) and Newnham and Simpson and Wadsworth, equal; Campbell (E. M.) and Scovil, equal; Duval (I. B.) and Laurin and McGerrigle and Norman, equal; Beattie (J. R.) and Dobbie and Forsyth and Lamb and McEwen and Roy, equal; Calder and Russel, equal; Hodge (E. A.).

Course 2.

Class I.—None. *Class II.*—Larkin, Weibel, Steine, Whitmore; Alexander and McCulloch, equal; Barnes (E. L.), Pierce; Kennedy and Smith (R. M.), equal; Olding and Tuffy, equal. *Class III.*—Wolepor, McLean, Hibbard; Roy and Scheffer, equal; Irwin and Kanigsberg and Zuckerman, equal; Gradinger, Johnson (A. S.), O'Heir.

Course 3.

Class I.—Steine, Foran. *Class II.*—Phillips, McCulloch, McPherson, Alexander, Zuckerman. *Class III.*—Thornton, Hershon, Kennedy, Wolepor, Scheffer, Gradinger, Kanigsberg.

Course 5.

Class I.—None. *Class II.*—McPherson. *Class III.*—Galley, Joseph; Charlton and Thornton, equal.

Course 6.

Class I.—None. *Class II.*—McPherson. *Class III.*—Thornton.

Course 7.

Class I.—None. *Class II.*—McPherson. *Class III.*—None.

Course 8.

Class I.—None. *Class II.*—Douglas. *Class III.*—None.

Course 10.

Class I.—Douglas. *Class II.*—None. *Class III.*—None.

Course 11.

Class I.—Hemming. *Class II.*—None. *Class III.*—Goddard; Charlton and Galley, equal.

Course 13.

Class I.—Douglas. *Class II.*—None. *Class III.*—Goddard and Hemming, equal; Charlton and Galley, equal.

Course 15.

Class I.—Douglas. *Class II.*—None. *Class III.*—None.

Course 16.

Class I.—Douglas. *Class II.*—None. *Class III.*—None.

DEPARTMENT OF ZOOLOGY.

Course 2.

Class I.—None. *Class II.*—Snyder, Dart, Donald, Macfarlane, Henderson. *Class III.*—None.

Course 3

Class I.—Godwin, Spier. *Class II.*—Higginson, Rabinovitch. *Class III.*—None.

Course 4.

Class I.—None. *Class II.*—Higginson. *Class III.*—None.

Course 5.

Class I.—None. *Class II.*—Kay and Mirsky, equal; Richardson, Rabinovitch (J.), Freedman (J.). *Class III.*—None.

SCHOOL OF COMMERCIAL STUDIES.

FIRST YEAR.

ACCOUNTANCY.

Class I.—Ellin; Cockshutt and Holland, equal; Becker; Dustan and Kaplan, equal; Snyder and Wilson (D. G.), equal; Tomalin, Nichol (G. H. G.), Phillips, Kee. *Class II.*—Caplan, Tyler; Shea and Steine, equal; Falconer, Wallace; Brownstone (A. M.) and Munro (J. E.), equal. *Class III.*—Windatt, Samit; Marks and Riley, equal; Clarkson and Goodkowsky and Kellnor, equal; Burke, Rann, Bashaw, Usher, Caswell, Mott; Brownstone (S. L.) and Carruthers and Dobbie and Jones and Shecter and Simpson, equal.

DRAWING.

Class I.—Ellin and Shecter, equal; Steine and Tomalin, equal; Brownstone (A. M.) and Falconer and Nichol (G. H. G.), equal; Simpson; Caplan and Holland, equal. *Class II.*—Wilson (C. P.); Becker and Finley, equal; Snyder, Brownstone (S. L.); Burke and Kersley, equal; Wallace; Jones and Kellnor, equal;

Webster; Carruthers and MacMahon, equal. *Class III.*—Mott and Shea, equal; Caswell and Clarkson, equal; Kaplan and Pepin, equal; Bulgin and Kee, equal; Tyler; Riley and Usher, equal; Calvert, Windatt; Dustan and Hamilton and Richter and Samit, equal; Mullen, Smith (E. D.).

ECONOMIC GEOGRAPHY.

Class I.—Cockshutt and Nichol (G. H. G.) and Shea, equal; Kaplan and Tomalin, equal; Windatt, Pepin, Dobell, Kee, Webster; Becker and Carruthers and Steine and Wilson (D. G.), equal; Dustan, Burke, Kellnor, Jones; Holland and Kersley and Simpson, equal. *Class II.*—Caplan and Tyler, equal; Snyder, Mott; Brownstone (A. M.) and Clarkson and Shecter and Wallace, equal. *Class III.*—Brownstone (S. L.), Bulgin; Goodkowsky and Usher, equal; Samit, Creighton, Caswell, Falconer; Marks and Richter, equal; Calvert; Bashaw and Rann and Riley, equal.

ENGLISH.

Class I.—Wilson (D. G.), Kellnor, Tomalin, Dustan, Caplan, Holland, Nichol (G. H. G.); Becker and Steine, equal. *Class II.*—Clarkson, Wallace, Falconer; Brownstone (A. M.) and Pepin, equal; Goodkowsky and Richter, equal; Tyler, Shea, Mott. *Class III.*—Kee, Simpson, Bulgin; Riley and Usher, equal; Kaplan; Brownstone (S. L.) and Samit and Shecter, equal; Kersley and Windatt, equal; Caswell, Burke, Jones, Bashaw, Rann, Carruthers.

HISTORY.

Class I.—Tomalin, Nichol (G. H.G.), Shea, Cockshutt, Dobell, Kaplan, Carruthers, Ellin; Jones and Windatt, equal; Caplan and Kee and Kellnor and Pepin and Webster, equal. *Class II.*—Burke; Clarkson and Steine, equal; Becker and Snyder, equal; Dustan and Richter and Shecter, equal; Holland, Mott; Goodkowsky and Simpson and Wallace, equal; Falconer and Wilson (D. G.), equal; Brownstone (S. L.) and Creighton, equal. *Class III.*—Usher; Marks and Tyler, equal; Brownstone (A. M.); Kersley and Rann and Samit, equal; Finley, Bashaw; Calvert and Caswell and Riley, equal; Bulgin.

MATHEMATICS: ALGEBRA.

Class I.—Holland and Snyder, equal; Phillips, Shecter, Caplan, Shea, Ellin; Nichol (G. H. G.) and Richter, equal; Tomalin, Kaplan, Wilson (D. G.), Becker, Dobell, Burke. *Class II.*—Dustan and Tyler, equal; Falconer, Steine, Wallace. *Class III.*—Mott; Jones and Kee and Skelton, equal; Smith (P. G.); Webster and Windatt, equal; Kersley, Simpson, Kellnor; Caswell and Riley, equal; Brownstone (S. L.).

MATHEMATICS: GEOMETRY.

Class I.—Holland, Caplan, Dustan, Nichol (G. H. G.), Kaplan, MacKinnon, Roussac; Jones and Smith (P. G.), equal; Shea, Ellin, Tomalin. *Class II.*—Munro; Cockshutt and Shecter, equal; Tyler, Becker; Phillips and Steine, equal; Usher, O'Brien, Hughes. *Class III.*—Richter and Windatt, equal; Kee, Fraser, Laffoley, Mott, Wallace; Kellnor and Mullen, equal; Elderkin, Finley; Nichol (J. M.) and Wilson (D. G.), equal; Aaronson

and Burke and Carruthers and Marks, equal; Goodkowsky and Kersley and Pepin and Simpson and Webster, equal.

MATHEMATICS: TRIGONOMETRY.

Class I.—Holland, Dustan, Becker, Tomalin; Caplan and Ellin, equal; Shea. *Class II.*—Phillips and Tyler, equal; Richter; Nichol (G. H. G.) and Shecter, equal; Mott, Burke, Kaplan, Steine. *Class III.*—Skelton, Riley, Kee, Wilson (D. G.), Jones, Samit.

PHYSICS.

Class I.—Holland, Dustan, Kaplan, Caplan; Nichol (G. H. G.) and Tomalin, equal; Brownstone (S. L.) and Windatt, equal; Tyler, Falconer; Ellin and Mott, equal; Shea; Burke and Riley, equal; Steine. *Class II.*—Kee, Shecter, Becker, Wilson (D. G.), Clarkson, Webster; Kellnor and Samit and Usher, equal. *Class III.*—Simpson, Richter; Bulgin and Caswell, equal; Brownstone (A. M.), Carruthers, Finley; Goodkowsky and Marks and Pepin, equal; Kersley, Creighton.

SECOND YEAR.

ACCOUNTANCY.

Class I.—Laffoley, Rutherford (W. K.). *Class II.*—O'Meara, Dougall, Shapira; Blackman and Werry, equal; Rutherford (J. B.). *Class III.*—Johnson, Shaw, Friedman.

BUSINESS ORGANIZATION.

Class I.—Laffoley; Johnson and O'Meara and Werry, equal; Dougall and Rutherford (J. B.), equal. *Class II.*—Lefkowitz and Rutherford (W. K.) and Shapira, equal; Blackman, Shaw. *Class III.*—Kellnor, Friedman.

COMMERCIAL LAW.

Class I.—Rutherford (J. B.). *Class II.*—Rutherford (W.), Blackman, Laffoley, Werry, Lefkowitz, O'Meara. *Class III.*—Dougall and Shapira, equal; Johnson and Shaw, equal; Friedman.

ECONOMIC GEOGRAPHY.

Class I.—Laffoley and O'Meara, equal; Rutherford (W. K.); Johnson, Shapira; Rutherford (J. B.) and Werry, equal. *Class II.*—Dougall, Friedman, Shaw, Blackman; Kellnor and Lefkowitz, equal. *Class III.*—None.

ECONOMICS.

Class I.—O'Meara, Laffoley. *Class II.*—Shapira and Werry, equal; Johnson, Lefkowitz, Rutherford (J. B.), Blackman, Shaw, Rutherford (W. K.). *Class III.*—Friedman, Dougall, Kellnor.

ENGLISH.

Class I.—Laffoley, O'Meara. *Class II.*—Werry, Rutherford (J. B.), Rutherford (W. K.), Blackman. *Class III.*—Shapira, Johnson, Dougall, Lefkowitz, Shaw, Kellnor.

HISTORY OF COMMERCE.

Class I.—Werry, Laffoley, Shapira, O'Meara, Rutherford (J. B.); Blackman and Johnson and Lefkowitz, equal; Dougall. *Class II.*—Shaw, Rutherford (W. K.). *Class III.*—Kellnor, Friedman.

MATHEMATICS.

Class I.—Laffoley, Shapira, Werry. *Class II.*—Rutherford (J. B.), Lefkowitz; Dougall and Rutherford (W. K.), equal. *Class III.*—Blackman, Johnson, Friedman, Benson (G. F.).

FRENCH.

Class I.—O'Meara and Laffoley, equal. *Class II.*—Werry, Shapira. *Class III.*—Johnson; Blackman and Rutherford (J. B.) and Rutherford (W. K.), equal; Lefkowitz, Kellnor; Dougall and Shaw, equal.

THIRD YEAR.

ACCOUNTANCY.

Class I.—None. *Class II.*—Wetstein, Shapira, Badian, Antliff. *Class III.*—Burland, Levitt, Glickman.

ECONOMICS.

Class I.—Antliff, Burland. *Class II.*—Levitt, Badian, Shapira. *Class III.*—MacDonald.

ECONOMICS OF TRANSPORT.

Class I.—Shapira, MacDonald. *Class II.*—None. *Class III.*—None.

ENGLISH.

Class I.—Antliff and Badian, equal; Burland, Wetstein; Levitt and Shapira, equal. *Class II.*—Masson, MacDonald. *Class III.*—None.

FRENCH.

Class I.—Shapira, Badian, Wetstein. *Class II.*—Macdonald, Antliff, Masson. *Class III.*—Levitt, Burland.

INDUSTRIAL ORGANIZATION.

Class I.—Antliff and Badian and Shapira, equal; Burland and Wetstein, equal; Levitt. *Class II.*—None. *Class III.*—Masson.

MATHEMATICS.

Class I.—Badian, Shapira. *Class II.*—MacDonald and Wetstein, equal; Levitt. *Class III.*—None.

SPANISH.

Class I.—None. *Class II.*—Shapira. *Class III.*—MacDonald.

McGill University.

SESSIONAL EXAMINATIONS, 1919-20.

REPORT OF THE

Faculty of Applied Science.

Honours in the Graduating Class, Medals, Certificates and Prizes, as follows:—

(Names in alphabetical order.)

Austin, Clarence Ward—Honours in Bridge Design, Electrical Engineering, and Hydraulics.

Chisholm, Alex. Harold—Honours in Machine Design, and Hydraulics.

Code, Francis Leslie—Honours in Electrical Engineering and Thermodynamics.

Creighton, Charles Pearse—Honours in Electrical Engineering Laboratory.

Davies, Vernon Russell—Honours in Bridge Design.

DeCew, Reginald Mark—Honours in Inorganic Quantitative Analysis.

Douglas, George Vibert—One-half McCall Summer Essay Prize. Undergraduates' Society's First Prize for Summer Essay.

Dunbar, John Robert—British Association Medal; Honours in Electrical Engineering, Electrical Engineering Laboratory, Electrical Designing, Electro Photometry and Illumination and Applications of Electricity, Electric Light and Power Distribution and Electric Traction, Thermodynamics; Prize for Summer Essay.

Eadie, Robert Scott—British Association Medal; Honours in Bridge Design, Electrical Engineering, Hydraulics, Strength of Materials and Theory of Structures; One-half Drinkwater Prize for Summer Essay.

Edwards, Gordon Maxwell Meighen—Dawson Fellowship in Mining.

Elderkin, Karl Osler—British Association Medal; Honours in Mechanics of Machines, Machine Design, and Hydraulics.

Erlenborn, Willi—One-half McCall Summer Essay Prize.

Ferrier, Alan—Honours in Hydraulics, and Strength of Materials; One-half Drinkwater Prize for Summer Essay.

Gilbert, Philip Geoffrey Britton—British Association Medal.
Kearns, William Francis—Honours in Advanced Inorganic Chemistry.
Larose, Paul—British Association Medal; Honours in Advanced Organic Chemistry, Physical Chemistry, and Industrial Chemistry.
Lindsay, Guy Adamson—Honours in Strength of Materials, and Theory of Structures.
Little, Harold Butler—One-half Louis Robertson Prize for Architectural Design.
McEvers, Harold Eric—One-half Louis Robertson Prize for Architectural Design.
Millar, Thomas Boyd—Honours in Advanced Inorganic Chemistry.
Roberton, Kenneth Baillie—Honours in Electrical Engineering Laboratory, and Thermodynamics.
Schippel, Walter Herbert—Honours in Electro Photometry and Illumination and Applications of Electricity, and Electric Light and Power Distribution and Electric Traction.
Taylor, John Ross—Honours in Inorganic Quantitative Analysis, and Industrial Chemistry.
Vessot, Charles Ulysses Robert—Crosby Steam Gauge and Valve Company's Prize for Summer Essay.

PASSED FOR THE DEGREE OF BACHELOR OF ARCHITECTURE.

(In order of merit.)

Little, Harold Butler, Ottawa, Ont.
McEvers, Harold Eric, Cobourg, Ont.

(*Unranked.*)

(In alphabetical order.)

Chipman, Noel Ingersoll, Montreal, Que.
Thomas, Phillip, Montreal, Que.

PASSED FOR THE DEGREE OF BACHELOR OF SCIENCE.

IN CHEMICAL ENGINEERING.

(In order of merit.)

Larose, Paul, Montreal, Que.
Taylor, John Ross, Westmount, Que.
Cameron, Edward Parke, Montreal, Que.
DeCew, Reginald Mark, Hutton Mills, B.C.
Mosher, Wilfrid Douglas, Lunenburg, N.S.
Crowe, Cyril Holesworth, Stewiacke, N.S.
Lafontaine, Gerard H., Montreal, Que.

Labell, Maurice Nelson, Mansonville, Que.
Ross, James Hamilton, Jr., Montreal, P.Q.
Hobart, George Maxwell, Montreal West, Que.
Edward, Arthur James, Westmount, Que.
Kearns, William Francis, Ottawa, Ont.
Rashback, Harry H., Montreal, Que.

(Unranked.)

Proudfoot, David Gibb, Montreal, Que.

IN CHEMISTRY.

Millar, Thomas Boyd, Portage la Prairie, Man.

IN CIVIL ENGINEERING.

(In order of merit.)

Eadie, Robert Scott, Ottawa, Ont.
Austin, Clarence Ward, Kamloops, B.C.
Robertson, Robert McFadyen, Lachine Locks, P.Q.
Ferrier, Alan, London, England.
Wickenden, John Francois, Danbury, Conn., U.S.A.
Cole, William Stanley, Brockville, Ont.
Seath, W. Pringle, Montreal, Que.
Betournay, J. Noe, St. Lambert, Que.
Greene, Leslie Kirk, Montreal, Que.
Deneau, Gaston, Montreal, Que.
Powell, John Murray, Ottawa, Ont.
LaMontagne, Henri Gaston, Montreal, Que.
Mahaffy, Herbert Laurence, Montreal, Que.

(Unranked.)

(In alphabetical order.)

Davies, Vernon Russell, Franklin, Man.
Lindsay, Guy Adamson, Winnipeg, Man.
MacEwen, Toronto, Ont.
McPhail, Donald Stuart, Jamaica, B.W.I.
Ross, Bruce, Westmount, Que.
Wilson, Eldon Parker, Ottawa, Ont.

IN ELECTRICAL ENGINEERING.

(In order of merit.)

Dunbar, John Robert, Ottawa, Ont.
Schippel, Walter Herbert, Montreal, P.Q.

Code, Francis Leslie, Ottawa, Ont.
Dawson, Heber William, Ottawa, Ont.
Pope, Eric Julyan, Westmount, Que.
Thompson, Trevor Creighton, Montreal, P.Q.
Creighton, Charles Pearse, New Westminster, B.C.
Arbuckle, James Stewart, Pictou, N.S.
Hacker, Louis W., Summerside, P.E.I.
Windsor, J. Rorke, Westmount, Que.

(*Unranked.*)

(In alphabetical order.)

Ord, Sidney Arthur, Port Carling, Ont.
Roberton, Kenneth Baillie, Montreal, Que.
Standish, Samuel James, Waterloo, Que.

IN MECHANICAL ENGINEERING.

(In order of merit.)

Elderkin, Karl Osler, Weymouth, N.S.
Chisholm, Alex. Harold, Stellarton, N.S.
Shrimpton, Dudley John, Westmount, Que.
Mackenzie, Brouard Hunter Tyndall, Moncton, N.B.
Smith, Edmund Howard, Westmount, Que.
Vessot, Charles Ulysses Robert, Ottawa, Ont.
McNicoll, Charles, Westmount, Que.
Scott, William Beverly, Dalhousie, N.B.
Rutherford, Archibald Bowman, Westmount, Que.
Kirkpatrick, Harold Thompson, Parrsboro, N.S. } equal.
Twinberrow, James Oswald, Gateshead on Tyne, England. }
Shapter, Carl, Montreal, Que.
Macpherson, Hugh, New Glasgow, N.S.
Rutherford, William Jackson, Westmount ,Que.

(*Unranked.*)

Patten, Roy Hamilton, St. George, Ont.

IN METALLURGICAL ENGINEERING.

Penney, Edgar, Carbonear, Nfld.

IN MINING ENGINEERING.

(In order of merit.)

Gilbert, Philip Geoffrey Britton, Toronto, Ont.
Henry, Leslie S., Montreal, Que. (B.A.).
Erlenborn, Willi, Westmount, Que.

Edwards, Gordon Maxwell Meighen, Ottawa, Ont.
White, MacLeod, New Denver, B.C.
Emery, Herbert James, Edmonton, Alta.
Dyer, Harry O'Regan, Sutton, Que.
Bradley, Herbert Ellison, Smith's Falls, Ont.

(*Unranked.*)

(In alphabetical order.)

Beach, Donald Johnston, Ottawa, Ont.
Douglas, George Vibert, Montreal, Que.
Gerez, Jose Manuel, Ottawa, Ont.
Karnes, Harry V., Kansas City, Mo., U.S.A.
Lawrence, Harold George, St. John, N.B.
Lee, Harold Carlton, St. John, N.B.
Mooney, Frank Melbourne, Montreal, P.Q.

PASS LIST OF THE SESSIONAL EXAMINATIONS.

FOURTH YEAR.

IN ARCHITECTURE.

(In order of merit.)

Durnford, Alexander Tilloch Galt, Montreal, P.Q.
Lyman, Walter Kenneth Gordon, Montreal, P.Q.

PRIZES.

THIRD YEAR.

(In alphabetical order.)

Anderson, Alexander Gordon—British Association Exhibition for Strength of Materials and Mechanics.

Canning, Dow Vernon—British Association Prize for Strength of Materials and Mechanics.

Congleton, Lord—Undergraduates' Society's Second Prize for Summer Essay.

Cunningham,, Frederick James—British Association Exhibition for Strength of Materials and Mechanics; First J. M. McCarthy Fieldwork Prize. ... ...

Fowler, Wallace W.—The Milton Hersey Prize for Summer Essay, also Undergraduates' Society's Third Prize for Summer Essay.

Macphail, Jeffrey Burland—One-half Second J. M. McCarthy Fieldwork Prize.

Mawdsley, James Buckland—One-half Second J. M. McCarthy Fieldwork Prize.

PASS LIST OF THE SESSIONAL EXAMINATIONS.

THIRD YEAR.

IN ARCHITECTURE.

(In order of merit.)

Goodman, Charles Davis, Montreal, P.Q.
*Van Etten, Frederick Bouton, Kingston, N.Y., U.S.A.

IN CHEMISTRY.

Timmerman, Everett Drinkwater, Montreal, P.Q.

(Unranked.)

Fox, Hugh Dean, Toledo, Ohio, U.S.A.

IN CHEMICAL ENGINEERING.

(In order of merit.)

Green, Frederick Gordon, St. John, N.B.
Jelly, Calvin Sherwood, Carleton Place, Ont.
Johnston, Harry Wyatt, Outremont, P.Q.
*Mitchell, Frank Leslie, Toronto, Ont.
Croft, Carman Milward, Digby, N.S.
*Lantz, Floyd Crawford, Montreal, P.Q.
*Giles, George Reid, Lachute, P.Q.
*Cuddy, John Michael, Montreal, P.Q.
Goodwin, Cassels Dunbar, Baie Verte, N.B.
*Challenger, James Othneil, St. Kitts, B.W.I.
*Smith, Roy Hamilton, Pictou, N.S.
*Calkin, Darrell Lorraine, Kentville, N.S.
*Warriner, Norman Downing, Montreal, P.Q.
*Cockfield, Alfred Ernest, Outremont, P.Q.
*Cambron, Adrien, Sherbrooke, P.Q.
*Copping, Allan Blythe, Westmount, P.Q.
*Forbes, Karl, Montreal, P.Q.
*Irving, George Ewart Logan, Moncton, N.B.
*Kay, Stuart Evans, Montreal, P.Q.

IN CIVIL ENGINEERING.

(In order of merit.)

Cunningham, Frederick James, Ottawa, Ont.
Gardner, John George, Montreal, P.Q.
Macphail, Jeffrey Burland, Montreal, P.Q.

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*Conditional upon passing supplemental examinations.

Fortin, Gastón Lalonde, Montreal, P.Q.
Farmer, Rupert Whitley, Barbados, B.W.I.
Watson, Conrad Ethelbert, Jamaica, B.W.I.
*Hannan, James, Jr., Irvington, N.Y., U.S.A
*Brault, Paul G. A., Outremont, P.Q.
*Loy, John Austin, Ottawa, Ont.
*O'Sullivan, Louis, Montreal, P.Q.
*Lewis, James Wentworth, St. John, N.B.
*Gauthier, Paul Gilles, Montreal, P.Q.

(Unranked.)

Elder, John Campbell, Montreal West, P.Q.
*Ferguson, John Alex., Nelson, B.C.

IN ELECTRICAL ENGINEERING.

(In order of merit.)

Anderson, Alexander Gordon, Buckingham, P.Q.
Canning, Dow Vernon, Notre Dame de Grace, P.Q.
*Phelan, Thomas Enslow, Westmount, P.Q.
Gliddon, W. G. Claude, Ottawa, Ont.
Fellows, Howard, Stellarton, N.S.
*Jackson, Carl Henry, Montreal, P.Q.
*Vineberg, Samuel Sullivan, Winnipeg, Man.
*Eaton, Milton, Treherne, Man.
Thompson, Gordon Maurice, Vancouver, B.C.
*Louttit, William Charles, Montreal, P.Q.
*Bishop, Trenholme Allen Gill, Montreal, P.Q.
*Acton, Harold Joseph, Westmount, P.Q.
*Macdonald, Dan., Springhill, P.Q.

(Unranked.)

Demers, Paul Emile, Montreal, P.Q.
Parnell, Eric, Medford, Mass., U.S.A.
Sloves, Moses, Montreal, P.Q.
Wiggs, Gordon Lorne, Quebec, P.Q.

IN MECHANICAL ENGINEERING.

(In order of merit.)

Congleton, John Brooke (Lord), London, England.
*Maxwell, Edward Blythe, Montreal, P.Q.
McGurdy, Lyall Radcliffe, New Glasgow, N.S.

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*Conditional upon passing supplemental examinations.

Macfarlane, Donald Henry, Sherbrooke, P.Q.
O'Halloran, James, Ottawa, Ont.
*Mooney, Reuel Burdett, Stellarton, N.S.
Hall, John G., Cornwall, Ont.
*Langstroth, Cecil Craven, Hampton, N.B.
*Winslow, Kenelm M., Winnipeg, Man.

IN METALLURGICAL ENGINEERING.

(In order of merit.)

*Harrison, Donald Ranald, Tamworth, Ont.
*Nutter, Jack Caswell, Lennoxville, P.Q.
*Jordan, Herbert Scott, Westmount, P.Q.
*Fowler, Wallace W., Westmount, P.Q.

IN METALLURGY.

*Henderson, Conway Hemsley Drummond, Westmount, P.Q.

IN MINING ENGINEERING.

(In order of merit.)

Bain, George W., Lachute, P.Q.
Brow, James Barratt, Charlottetown, P.E.I.
*Saunders, James Erling, Westville, N.S.
*Weldon, Leslie Smiley, Montreal, P.Q.
*Mawdsley, James Buckland, Clemens, Alta.
Cromwell, Harry Roy, Notre Dame de Grace, P.Q.
*Dewar, Charles Leonard, Ottawa, Ont.
*Davis, Samuel, Montreal, P.Q.

(*Unranked.*)

Bourret, Paul E., Montreal, P.Q.
*Palmer, Charles Leonard, London, England.

SECOND YEAR.

PRIZES.

(In alphabetical order.)

McTaggart, George Duncan—Second Prize for Mathematics and Mechanics.
Mott, Harold Edgar—First Prize for Mathematics and Mechanics.
Perry, Alfred Leslie—Anglins Ltd. Prizes for Architectural Drawing, and Construction.
Taber, Harold Edward—Third Prize for Mathematics and Mechanics.

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*Conditional upon passing supplemental examinations.

PASS LIST OF THE SESSIONAL EXAMINATIONS.

IN ARCHITECTURE.

(In order of merit.)

Perry, Alfred Leslie, Notre Dame de Grace, P.Q.
Luke, Morley C., Montreal West, P.Q.
*Wiggs, Henry Ross, Quebec City, P.Q.
*Morris, Robert Schofield, Jr., Hamilton, Ont.
*Watt, Leslie Alexander, Ste. Anne de Bellevue, P.Q.

(*Unranked.*)

Brown, Lawrence Elliott, Ottawa, Ont.

IN CHEMISTRY.

(In order of merit.)

*Taylor, John Ellis, St. John West, N.B.
Binmore, George Bedell, Montreal, P.Q.

OTHER COURSES.

(In order of merit.)

McTaggart, George Duncan, Clinton, Ont.
Weldon, T. Herbert, Montreal, P.Q.
Bush, Harold Frederick, Ottawa, Ont.
*Mott, Harold Edgar, Winnipeg, Man.
Biggar, Percival Elliot, Ottawa, Ont.
Brooks, Charles Lennox, Montreal, P.Q.
Dobson, Robert Munro, Outremont, P.Q.
Clarke, Edward Lawrence, Montreal, P.Q.
Carlyle, Arthur William, Ottawa, Ont.
Bissell, Harold Rodolph, Toronto, Ont.
Hanington, Francis Carleton, Ottawa, Ont.
*Bonneville, Sydney, Ottawa, Ont.
*Desbarats, George Henry, Ottawa, Ont.
Morrisette, Gordon Joseph, Sherbrooke, P.Q.
Grant, Ralph Glencoe, Montreal, P.Q.
Taber, Harold Edward, Carleton Place, Ont.
Kyle, Donald Gordon, Westmount, P.Q.
Messenger, William Aubrey, Montreal, P.Q.
Fraser, Andrew Stockwell, Ottawa, Ont.
*Carson, Cecil Edward, Westmount, P.Q. } equal.
*Murphy, Alex. Gordon Silcox, Westmount, P.Q. }

*Conditional upon passing supplemental examinations.

Ross, James Hargrave Drummond, Westmount, P.Q.
Clark, George Silas, Lachute, P.Q. } equal.
McLennan, Gordon Roderick, Ottawa, Ont. }
*Holmes, Everett Eric, Westmount, P.Q.
Wain, Eric James, St. Lambert, P.Q.
Woolward, Charles Desmond, Dominica, W.I.
*Holt, Ernest William, Notre Dame de Grace, P.Q.
Banfill, Harold Leroy, Richmond, P.Q.
Bastable, Ross Waller, Lachine, P.Q.
Gordon, George Blair, Montreal, P.Q.
*Hastings, Walter Hindson, Regina, Sask.
Loebel, John Mayer, Montreal, P.Q. } equal.
*Tatley, Lambert David, Westmount, P.Q. }
Eager, Norman Herbert Aldwyn, Montreal, P.Q.
*Crawford, Robert Eric Anderson, Montreal, P.Q.
Spratt, Maynard James Campbell, Ottawa, Ont.
*Wilson, James M., Lachine, P.Q.
*Gurman, Israel, I. T., Montreal, P.Q.
Boronow, Paul, Westmount, P.Q.
*Parker, Charles Alexander, Ottawa, Ont.
*Farquharson, John Spencer, Jamaica, B.W.I.
*Cousineau, Charles A., Montreal, P.Q.
Duff, Edgar Cowperthwaite, Carbonear, Newfoundland.
*Armstrong, Lawrence Henry, Montreal, P.Q.
Brown, Edmund Vere, Winnipeg, Man.
*Gnaedinger, Paul Ernest, Montreal, P.Q.
*MacGregor, Roderick Archibald, New Glasgow, N.S.
*Brown, George Basil, Montreal, P.Q.
*Glen, Alexander Fulton, Montreal, P.Q.
*Evans, William, Montreal, P.Q.
*Bradfield, John Ross, Morrisburg, Ont.
*Lorin, L. Gustave, Montreal, P.Q.
*Wonham, Walter Richard, Westmount, P.Q.
*Jandrew, Cyrus Bertram, Ottawa, Ont.
*Fisk, George Harold, Montreal, P.Q.
*Wright, Weir Stanley, Westmount, P.Q.
*Pevzner, Isadore, Montreal, P.Q.
*Simons, John Joseph, Michel, B.C.
*Chorney, Melvin Mendel, Montreal, P.Q.
*Macrae, Donald, Westmount, P.Q.
*Ford, Robert, Ottawa, Ont.

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*Conditional upon passing supplemental examinations.

*Taylor, Edward Plunket, Ottawa, Ont.
*Anderson, Dan, Charlottetown, P.E.I.
*Drummond, Ross Newton, Montreal, P.Q.
*Humes, Harold Louis, Westmount, P.Q.
*Macnaughton, Moray Fraser, Westmount, P.Q.
*Normandin, Romeo Armand, Montreal, P.Q.
*Reiffenstein, John Christopher, Westmount, P.Q.
*Tucker, Bryant Burgess, Chulmleigh, North Devon, England.
*Mitchell, James Murray, Montreal, P.Q.
*Wilder, Hartland Bates, Westmount, P.Q.

(*Unranked.*)

(In alphabetical order.)

*Ahern, Arthur Weston, Quebec, P.Q.
Brandes, Emmanuel, Montreal, P.Q.
Cartwright, George Herbert, Croydon, England (*Aegrotat*).
Durant, Norman Morton, Parrsboro, N.S.
Hart, Lawrence Folgar Carleton, Ottawa, Ont.
Hill, Stanley Clayton, Richmond, P.Q.
Livingstone, Kenneth Mackay, Washington, D.C.
Salamis, Basil, Montreal, P.Q.
*Salter, Frederick Cumberland, Westmount, P.Q.
Smith, David Whitney, Montreal, P.Q.
Thompson, Cecil E., Ottawa, Ont.
Tison, Maurice, Montreal, P.Q.
Ward, Melville Ernest St. Clair, Kingston, Ont.
Whelen, Morland Powers, Ottawa, Ont.
Wilson, James Kinnear, Sherbrooke, P.Q.

FIRST YEAR.

PRIZES.

(In alphabetical order.)

Kennedy, Neil—Second Prize for Mathematics, Descriptive Geometry and Physics.

Larose, Marcel Jules—First Prize for Mathematics, Descriptive Geometry and Physics.

Moore, Reginald Arthur—Scott Exhibition for Mathematics, Descriptive Geometry and Physics.

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*Conditional upon passing supplemental examinations

PASS LIST OF THE SESSIONAL EXAMINATIONS.

IN ARCHITECTURE.

(In order of merit.)

Cooper, Hugh Christopher Dunstan, Truro, England.
*Macleod, Alexander Norman, New Waterford, N.S.

(*Unranked.*)

Amos, Pierre Charles, Montreal, P.Q.
Watt, Leslie Alexander, Ste. Anne de Bellevue, P.Q.

OTHER COURSES.

(In order of merit.)

Moore, Reginald Arthur, New Westminster, B.C.
Larose, Marcel Jules, Montreal, P.Q.
*Kennedy, Neil, Owen Sound, Ont.
Layne, John Graham, Barbados, B.W.I.
Hunten, Kenneth William, Johnville, Que.
Laidley, Wendell Howard, Montreal, P.Q.
Culpeper, Bernard Armel, Barbados, B.W.I.
Cregeen, Kenneth Thomas, Montreal, P.Q.
Stephen, Gordon Robert, Montreal, P.Q.
Lewis, Joseph, Ottawa, Ont.
Oliver, James Harold, Rockburn, Que. } equal.
Toole, Francis James, London, England. }
Faith, Willard Vanamber, Winchester, Ont.
Harbert, Edward Thomas, Montreal, P.Q.
Craik, Oliver Stanley, Melbourne, P.Q.
Radley, Percy Edward, Ottawa, Ont.
Crain, George Edwin, Ottawa, Ont.
Yorston, Frederic Harrison, Montreal, P.Q.
Matheson, Arthur Marshall, Ottawa, Ont.
Wood, Robert, Notre Dame de Grace, P.Q.
Cooper, Paul Emerson, Portland, Me. }
Macaulay, Kenneth Douglas, Montreal, P.Q. } equal.
Munro, David John Best, Montreal, P.Q. }
*Buller, Francis Hamilton, Montreal, P.Q.
Rochester, Bertram Cole, Ottawa, Ont.
Bloomfield, Jacob, Montreal, P.Q.
Gordon, Harold Cowan Morton, Glace Bay, N.S } equal.
Turnbull, Andrew Rutherford, Welland, Ont. }

*Conditional upon passing supplemental examinations.

Armstrong, Arnold Victor, Montreal, P.Q.
McNaughton, Ronald Russel, Victoria, B.C.
Ambridge, Douglas White, Mexico City, Mexico. } equal.
Powell, Allan Trew, Ottawa, Ont. }
Binns, George Frederick, Notre Dame de Grace, P.Q.
Pelletier, Rene Arthur, Montreal, P.Q.
Foss, Donald Burrowes, Sherbrooke, P.Q.
Finley, Frederick Lovell, Montreal, P.Q.
Legg, Roland Edward, Victoria, B.C.
*Willis, Irwin Davidson, Montreal, P.Q.
Eadie, Thomas Wardrope, Ottawa, Ont.
Bieler, Jacques Louis, Westmount, P.Q. } equal.
Smith, Archie Ewart, Brandon, Man. }
Read, Douglas Ellery, Sherbrooke, P.Q.
Davies, Clarence Bernard, Hull, P.Q.
Roquet, Leo Laurent, Ottawa, Ont.
Griffith, Thomas Raymond, Montreal, P.Q.
McKindsey, Gordon, Lennoxville, P.Q.
Rorke, Charles Burnell, Montreal, P.Q.
Peters, Arthur Wright, Westmount, P.Q.
McLagan, Thomas Rodgie, Westmount, P.Q.
Brisbane, William Gordon, Westmount, P.Q. } equal
Finlayson, Harold Musgrove, Montreal, P.Q. }
Buffam, Basil Scott Whyte, Perth, Ont.
*Allan, John Maynes, Halifax, N.S.
Terrance, Emmett Howard, Ottawa, Ont.
*Webster, Robert Chilion Peter, Ottawa, Ont.
LeBaron, Karl Shurtleff, Sherbrooke, P.Q.
Mills, Charles Perkins, Ottawa, Ont. } equal.
Ross, Malcolm Vaughan, Quebec, P.Q. }
*Desloover, Raymond, Montreal, P.Q.
Blackall, John Fenwick Walker, St. Johns, Newfoundland
Smallhorn, Edward Robert Thomas, Montreal, P.Q.
Downs, Henry William, Lennoxville, P.Q. } equal.
*Grant, Grainger Stewart, Halifax, N.S. }
*Gaudet, Gaston, Montreal, P.Q.
Cuttle, William Gordon, Montreal, P.Q.
Bleau, Alphonse, Maisonneuve, Montreal, P.Q.
*Baxter, Warren Phelps, Montreal West, P.Q.
Scott, James McDonald, Valleyfield, P.Q.
Timmis, Harold Gordon, New York, U.S.A.
*Bradshaw, Gordon Rothwell, Nelson, B.C.

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*Conditional upon passing supplemental examinations.

*Sherwood, Thomas K., Westmount, P.Q.
*Johnson, William James, Lachine, P.Q.
Cross, George Esplin, Westmount, P.Q.
Morin, Charles Auguste, Montreal, P.Q.
Brough, Frank Sheldon, Westmount, P.Q.
Patton, Hugh Bradford, Montreal, P.Q.
Streadwick, Ralph Donell St. George, Jamaica, B.W.I.
Bradshaw, Frederick Wykeham, London, England.
Patterson, Thomas Bitton, Lumsden, Sask. } equal.
*Tallon, Joseph Andrew, Quebec, P.Q. }
Clark, Howard Langley, Croydon, England.
Adams, Albert Oliver, Bowesville, Ont.
*Davis, William Wallace, Ottawa, Ont.
*Herman, Reuben, Montreal, P.Q.
*Gegg, Richard Conrad, Hongkong, China.
*Whittemore, Carl Raymond, Trail, B.C.
*Fagan, James Wilfrid, Montreal, P.Q.
Dalrymple, Edward Ross, Westmount, P.Q.
*Graham, George Patterson, New Glasgow, N.S. } equal.
*White, Gerald Leland, London, Ont. }
Carpenter, Thayer Robinson, Lachute Mills, P.Q.
*Stirling, Laurie Brodie, Montreal, P.Q.
*Simpson, James Catanach, Jr., Montreal, P.Q.
*MacLaren, Albert Roy, Buckingham, P.Q.
*Denis, Bertrand Tyrrell, Quebec, P.Q.
*McMeans, Lendrum Edmund, Winnipeg, Man.
*Simpson, Richard Loudon, Montreal, P.Q.
*Chisholm, Joseph Donald, Antigonish, N.S. } equal.
*Horsey, Richard Mounstephen, Montreal, P.Q. }
*Taschereau, Rogers Harwood, Ottawa, Ont.
*Owens, Owen Norreys Harrington, Montreal, P.Q.
*Lawrence, Frederick Sylvester, Notre Dame de Grace, P.Q. } equal.
*Livingstone, Arnold Clarence, Montreal, P.Q. }
*Caldwell, Charles Edward, Conception Bay, Newfoundland.
*Abbott-Smith, Harry B., Montreal, P.Q. } equal.
*McCaw, John Blacklock, Sherbrooke, P.Q. }
*Maclaren, Alexander Barnet, Buckingham, P.Q.
*Brodeur, Jean Charles, Ottawa, Ont.
*Oliver, Cuthbert Jack, New York, U.S.A.
*Bishop, Eric Gordon, Bonavista Bay, Newfoundland. } equal.
*Raginsky, Bernard, Montreal, P.Q. }

*Conditional upon passing supplemental examinations.

*Champion, Cecil Hugh, Chateauguay Basin, P.Q.
*Jackson, Lawrence Wright, Ottawa, Ont.
*Wylde, Charles Napier, Montreal, P.Q.
*Berry, Charles Frederick, Cartierville, P.Q. } equal.
*Holden, John Hastie, Westmount, P.Q. }
*Hamilton, Geoffrey John, Montreal, P.Q.
*Parsons, Frederick Errol Leslie, Montreal, P.Q.
*Gamble, Robert Bruce, Ottawa, Ont.
*Kingan, Gordon Herron, Montreal, P.Q.
*Dickinson, Albert Godfrey, Duncan, B.C.
*Powell, Fraser Edwin, Ottawa, Ont. } equal.
*Zybach, Jack Melchior, Niagara Falls, Ont. }
*Evans, Charles Durward, Quebec, P.Q.

(*Unranked.*)

(In alphabetical order.)

Bethune, John Strachan Talbot, Montreal, P.Q.
Cohen, Joseph, Ottawa, Ont.
Cromwell, Alexander Ross, Cookshire, P.Q.
Davis, Sydney Herbert, Ottawa, Ont.
De Salaberry, Bernard, Ottawa, Ont. (*aegrotat*).
Elliot, Gerald Burton, Westmount, P.Q.
Foss, Roy Holmes, Sherbrooke, P.Q.
Fry, John Dawson, Montreal, P.Q.
Gnaedinger, Adrien Leslie, Westmount, P.Q.
Gooch, Harold Cowasjee, Dundee, P.Q.
Gualtieri, Santo, Thorold, Ont.
Hamilton, Herbert James, Westmount, P.Q.
Hamilton, Philip Dawson Prior, Midvale, Utah, U.S.A.
Harling, Frank Norman, Montreal.
Johnson, Edwin Lewis, Outremont, P.Q.
Kerr, George Elliott, Fernie, B.C.
King, John David, Montreal, P.Q.
Kirsch, Harry, Notre Dame de Grace, P.Q.
McCallum, Fred. Lee, Welland, Ont.
MacNider, Clarence Henry, Westmount, P.Q.
Midgley, Russell Edward, Montreal, P.Q.
Morrison, Dave Reid, Westmount, P.Q.
Munro, William Cauldwell, Notre Dame de Grace, P.Q.
Murphy, Edward Joseph O'Murrough, Saskatoon, Sask.
Nesbitt, Martin Bicirra, Chihuaha, Mexico.
Notman, James Godfrey, Westmount, P.Q.

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*Conditional upon passing supplemental examinations.

Patterson, Kenneth Breck, Westmount, P.Q.
Quinlan, James T., Westmount, P.Q.
Ramsey, Kenneth McPherson, Quebec, P.Q.
Reeve, Charles Lailey, Outremont, P.Q.
Reid, Howard Edward, St. John, N.B.
Root, Stephen Eastman, Westmount, P.Q.
Scott, Paul Stuart, Montreal, P.Q.
Turnbull, Rupert Davidson, Rothesay, N.B.
Velasco, Edward Marmanillo, Cuzco, Peru.

STANDING IN THE SEVERAL SUBJECTS.

(1) STUDENTS IN ARCHITECTURE.

ARCHITECTURAL DESIGN.

Fifth Year.—Class I.—Little and McEvers, equal. *Class II.*—None. *Class III.*—Thomas.

Fourth Year.—Class I.—None. *Class II.*—Durnford. *Class III.*—Lyman.

Third Year.—Class I.—None. *Class II.*—Goodman. *Class III.*—Van Etten.

Second Year.—Class I.—Perry. *Class II.*—Brown (L. E.), Wiggs, Luke, Morris. *Class III.*—Watt, Hunter.

ARCHITECTURAL DRAWING.

Fourth Year.—Class I.—None. *Class II.*—Lyman. *Class III.*—Thomas, Durnford.

Third Year.—Class I.—None. *Class II.*—Goodman. *Class III.*—Van Etten.

Second Year.—Class I.—Perry; Brown (L. E.) and Wiggs, equal; Luke. *Class II.*—Amos and Watt, equal. *Class III.*—Hunter, Morris.

First Year.—Class I.—Wilson (P. R.). *Class II.*—Cooper, Macduff, Bouillon, McLeod (A. N.). *Class III.*—Strong.

ARCHITECTURAL ESSAY.

Fifth Year.—Class I.—Little. *Class II.*—Thomas. *Class III.*—McEvers.

Fourth Year.—Class I.—None. *Class II.*—Thomas, Lyman. *Class III.*—Durnford.

Third Year.—Class I.—None. *Class II.*—Goodman. *Class III.*—Van Etten.

Second Year.—Class I.—Luke and Perry, equal; Wiggs. *Class II.*—Watt, Morris, Hunter. *Class III.*—Brown (L. E.).

ARCHITECTURAL GEOMETRY.

First Year.—*Class I.*—Cooper. *Class II.*—Macduff, Strong. *Class III.*—McLeod (A. N.), Bouillon.

BUILDING CONSTRUCTION.

Second Year.—*Class I.*—Perry. *Class II.*—Luke, Wiggs, Watt. *Class III.*—Morris.

BUILDING DETAILS.

Second Year.—*Class I.*—Perry, Wiggs, Luke. *Class II.*—Watt, Morris. *Class III.*—Van Etten, Hunter.

ELEMENTS OF ARCHITECTURE.

First Year.—*Class I.*—Cooper, Bouillon. *Class II.*—None. *Class III.* McLeod (A. N.), Macduff, Strong.

ELEMENTS OF COMPOSITION.

Second Year.—*Class I.*—Perry. *Class II.*—Wiggs; Morris and Luke, equal; Brown (L. E.) and Watt, equal. *Class II.*—Hunter.

FREEHAND DRAWING.

Fourth Year.—*Class I.*—None. *Class II.*—Durnford, Thomas. *Class III.*—Lyman.

Third Year.—*Class I.*—None. *Class II.*—Goodman. *Class III.*—Van Etten.

Second Year.—*Class I.*—Perry, Luke. *Class II.*—Hunter, Morris; Amos and Brown (L. E.) and Watt, equal. *Class III.*—None.

First Year.—*Class I.*—Cooper (H. C. D.) and Wilson (P. R.), equal. *Class II.*—Bouillon and Strong, equal; McLeod (A. N.). *Class III.*—None.

HEATING AND VENTILATION.

Fourth Year.—*Class I.*—None. *Class II.*—Durnford. *Class III.*—Lyman.

HISTORY OF ARCHITECTURE (CLASSIC).

Second Year.—*Class I.*—Perry. *Class III.*—Wiggs. *Class III.*—Luke, Brown (L. E.), Morris, Watt, Hunter.

HISTORY (GENERAL).

First Year.—*Class I.*—Cooper (H. C. D.). *Class II.*—Macduff, Amos. *Class III.*—McLeod (A. N.); Bouillon and Strong, equal.

HISTORY OF ARCHITECTURE (MODERN).

Fifth Year.—*Class I.*—Little and McEvers, equal. *Class II.*—None. *Class III.*—None.

HISTORY OF ARCHITECTURE (RENAISSANCE).

Third Year.—Class I.—Durnford. *Class II.*—Goodman and Lyman, equal. *Class III.*—Van Etten.

HISTORICAL DRAWING.

Fifth Year.—Class I.—None. *Class II.*—Little. *Class III.*—McEvers.

HYGIENE OF BUILDINGS.

Fourth Year.—Class I.—None. *Class II.*—Durnford, Lyman. *Class III.*—None.

MODELLING.

Fifth Year.—Class I.—Little and McEvers, equal. *Class II.*—None. *Class III.*—None.

Fourth Year.—Class I.—None. *Class II.*—Durnford and Thomas, equal; Lyman. *Class III.*—None.

ORNAMENT AND DECORATION, NO. 9.

Fourth and Third Years.—Class I.—None. *Class II.*—Goodman. *Class III.*—Durnford, Lyman, Brown, Van Etten.

ORNAMENT AND DECORATION, NO. 10.

Fourth and Third Years.—Class I.—None. *Class II.*—Brown (L. E.), Lyman. *Class III.*—Goodman, Thomas, Durnford, Van Etten.

PERSPECTIVE.

Third Year.—Class I.—Goodman, Van Etten. *Class II.*—Brown (L. E.). *Class III.*—None.

PHYSICS.

First Year.—Class I.—None. *Class II.*—Cooper (H. C. D.), Amos. *Class III.*—None.

PHYSICS LABORATORY.

First Year.—Class I.—Cooper (H. C. D.), Amos. *Class II.*—McLeod (A. N.), Macduff. *Class III.*—None.

PROFESSIONAL PRACTICE.

Fifth Year.—Class I.—Thomas. *Class II.*—None. *Class III.*—None.

STRUCTURAL ENGINEERING.

Third Year.—Class I.—None. *Class II.*—Goodman. *Class III.*—None.

Second Year.—Class I.—Perry, Morris. *Class II.*—Brown (L. E.) and Luke, equal. *Class III.*—Watt, Wiggs, Hunter.

STRUCTURAL ENGINEERING (DRAFTING) (II.)

Third Year.—*Class I.*—Goodman. *Class II.*—None. *Class III.*—Van Etten.

STRUCTURAL ENGINEERING (DRAFTING) (I.)

Second Year.—*Class I.*—Perry. *Class II.*—Brown (L. E.), Hunter, Luke, Wiggs. *Class III.*—Morris, Watt.

SUMMER READING AND WORK.

Fifth Year.—*Class I.*—None. *Class II.*—None. *Class III.*—Little.

Fourth Year.—*Class I.*—None. *Class II.*—Lyman, Durnford. *Class III.*—None.

Third Year.—*Class I.*—None. *Class II.*—Van Etten. *Class III.*—Goodman.

Second Year.—*Class I.*—Wiggs; Morris and Perry, equal; Luke. *Class II.*—Brown (L. E.), Watt. *Class III.*—None.

THEORY OF DESIGN.

Fourth and Third Years.—*Class I.*—Goodman. *Class II.*—Lyman, Durnford, Van Etten. *Class III.*—None.

(2) STUDENTS IN OTHER COURSES.

APPLICATIONS OF ELECTRICITY.

Fourth Year.—*Class I.*—Creighton, Dunbar; Code and Thompson, equal; Pope. *Class II.*—Dawson, Schippel, Wiggs, Windsor. *Class III.*—Standish, Demers, Roberton, Hacker, Parnell, Arbuckle.

APPLIED ELECTRO-CHEMISTRY AND LABORATORY.

Fourth Year.—*Class I.*—Millar; Labell and Taylor, equal; Dunbar and Edward and Larose, equal. *Class II.*—Code, Cameron, Decew, Creighton, Rashback, Arbuckle; Hobart and Pope, equal. *Class III.*—Dawson; Crowe and Kearns, equal; Ross (J. H.), Thompson, Schippel, Lafontaine; Mosher and Smith (D. T.), equal; Patten, Windsor; Parsons and Roberton, equal; Fox and Hacker and Millidge and Stewart and Wiggs, equal.

BRIDGE DESIGN.

Fourth Year.—*Class I.*—Davies, Austin, Eadie; Lindsay and Robertson, equal. *Class II.*—Ferrier, McPhail, Elder, Ross (B.), Betournay, Wickenden, Greene. *Class III.*—LaMontagne, Cole, Seath, Deneau, Powell, Mahaffy, MacEwen.

CHEMISTRY.

ADVANCED INORGANIC CHEMISTRY.

Fourth Year.—Class I.—Millar, Kearns. *Class II.*—DeCew and Hobart, equal; Taylor. *Class III.*—Fox, Smith (D. T.).

ADVANCED ORGANIC CHEMISTRY.

Fourth Year.—Class I.—Larose, Labell. *Class II.*—Millar, Mosher, Crowe; Cameron and Lafontaine, equal. *Class III.*—Rashback, Ross (J. H.), Edward.

FOOD CHEMISTRY.

Fourth Year.—Class I.—Larose; Cameron and Lafontaine, equal. *Class II.*—Ross (J. H.), Crowe, Mosher. *Class III.*—Labell, Rashback; Edward and Fox and Parsons, equal.

GENERAL CHEMISTRY.

Second Year.—Class I.—Tatley, Mott, Brooks, Grant, Cartwright; Desbarats and Weldon, equal; Clarke; Bissell and Taber, equal; Bush and Farquharson, equal; Macnaughton. *Class II.*—Kyle; Carson and Hastings, equal; Wright, McTaggart; Duff and Holt and Midgley, equal; Ahern and Carlyle and Woolward, equal; Bonneville and Gurman and Hanington and Munro and Ross (J. H. D.), equal; Pevzner; Biggar and Chorney and Gnaedinger (P. E.), equal; Brown (G. B.) and Crawford and Dobson and Humes and Mitchell (J. M.) and Morrisette, equal; Bastable; Anderson and Gordon and Holmes and Loebel and Messenger, equal; Drummond and Taylor (E. P.) and Wilson (J. M.), equal; Banfill and Boronow and Clark and Fraser, equal. *Class III.*—Jandrew and McLennan and Spratt, equal; Benett and Cousineau and Ford and MacGregor, equal; Kerr and Mackenzie (G. H.) and Reed and Wilder, equal; Lorin and Normandin and Reid, equal; Evans and King, equal; Scott; Parker and Wilson (H. A.), equal; Brown (E. V.) and Fisk and Murphy (A. G. S.) and Nesbitt and Wain, equal; Davis (S. H.) and Reiffenstein, equal; Kirsh; Hamilton and Turton, equal; Simons and Tucker, equal; Coughlan and Glen and Jenks and Macrae, equal; Buchanan and Hamel and McDougall and Morrison and Pfeiffer and Thompson, equal.

Second Year.—(Chemistry Course). Class I.—None. *Class II.*—Taylor (J. E.), Binmore. *Class III.*—None.

HISTORY OF CHEMISTRY.

Fourth Year.—Class I.—Millar and Larose, equal; DeCew and Lafontaine, equal; Edward. *Class II.*—Ross (J. H.), Cameron, Hobart, Rashback, Smith (D. T.), Taylor. *Class III.*—Labell, Mosher, Crowe; Kearns and Parsons, equal.

INORGANIC INDUSTRIAL CHEMISTRY.

Fourth Year.—Class I.—Larose, Taylor, Crowe. *Class II.*—DeCew; Edward and Millar, equal; Cameron; Millidge and Rashback, equal. *Class III.*—Lafontaine and Smith (D. T.), equal; Labell and Penney, equal; Ross (J. H.), Kearns, Fox, Hobart and Mosher and Parsons, equal.

INORGANIC QUALITATIVE ANALYSIS.

Third Year.—Class I.—None. *Class II.*—Armstrong, Bain. *Class III.*—Brow; Cromwell and Tansley, equal; Saunders; Scriver and Weldon and Wells, equal; Gualtieri.

Second Year.—Cass I.—Binmore. *Class II.*—Taylor (J. E.). *Class III.*—None.

INORGANIC QUANTITATIVE ANALYSIS.

Third Year.—Class I.—Jelly; Cuddy and Green, equal; Mitchell, Smith (R. H.); Forbes and Harrison and Timmerman, equal. *Class II.*—Lantz and Warriner, equal; Harris, Johnston, Croft; Goodwin and Henderson and Jordan, equal; Cockfield and Giles and Stroud and Yates, equal. *Class III.*—Cambron and Clossey and Rochester (G. H.), equal; Cloutier and Cohen and Shotwell, equal; Calkin and Nutter, equal; Kay; Hyndman and Irving, equal; Copping; Gibbs and Mackenzie, equal; Challenger.

ORGANIC CHEMISTRY.

Third Year.—Class I.—Johnston; Green and Timmerman, equal. *Class II.*—Thomson, Giles; Cohen and Mitchell, equal. *Class III.*—Jelly, Croft, Lordly; Challenger and Cuddy, equal; Goodwin and Lantz and Smith (R. H.), equal; Calkin and Cambron and Cockfield and Harris and Kay and McIntyre, equal.

ORGANIC INDUSTRIAL CHEMISTRY.

Fourth Year.—Class I.—Larose, Millar, Taylor; Cameron and Crowe and Mosher, equal; Edward. *Class II.*—Labell and Smith (D. T.), equal; DeCew; Lafontaine and Rashback, equal; Kearns, Parsons. *Class III.*—Hobart, Millidge, Ross (J. H.).

PHYSICAL CHEMISTRY.

Third Year.—Class I.—Mitchell, Thomson; Jelly and Timmerman, equal. *Class II.*—Lordly and Giles, equal; Millidge; Cuddy and Gibbs, equal; Warriner, Johnston, Irving, Green; Lantz and Croft and Cockfield, equal. *Class III.*—Calkin and McIntyre, equal; Henderson, Challenger; Forbes and Yates, equal; Cloutier; Cambron and Smith (R. H.), equal; Goodwin and Hyndman and Purcell and Rochester (G. H.), equal.

PHYSICAL CHEMISTRY AND LABORATORY.

Fourth Year.—Class I.—Larose; Cameron and Taylor, equal. *Class II.*—Ross (J. H.), Mosher; Crowe and Millar, equal; DeCew. *Class III.*—Labell, Lafontaine, Kearns, Edward; Hobart and Rashback and Smith (D. T.), equal.

CRYSTALLOGRAPHY.

Fourth Year.—Class I.—Millar, Armstrong (P. F.). *Class II.*—None. *Class III.*—None.

DESCRIPTIVE GEOMETRY.

First Year.—Class I.—Larose and Moore, equal; Kennedy and Matheson and Smith, equal; Culpeper and Griffith and Webster and Yorston, equal; Armstrong and Hunten and Livingstone and Macaulay, equal; Blackall and Cregeen and Desloover and Finley and Lawrence and Stephen and Toole, equal; Cooper (P. E.) and McNaughton and Read, equal; Champion and Craik and Radley and Timmis and Willis, equal; Bieler and Grant and Laidley and Lewis, equal; Faith and Johnson and Powell (A. T.) and Stirling and Taschereau and Turnbull (A. R.), equal; Binns and Crain and Eadie and Gamble and Munro (D. J.) and Pelletier, equal; Baxter and Brough and Chisholm and Harbert, equal; Wood; Graham and Murphy (E. J. O.) and Scott (J. M.) and Smallhorn and Velasco and Wylde, equal; Buller and McLagan, equal; Bloomfield and Horsey and Raginsky, equal; Davis and Gordon, equal; Cross and Gaudet and Layne, equal; Bradshaw (F. W.) and Brisbane and Cuttle and Davies and McKindsey and Peters, equal; Macnutt; Abbott-Smith and MacLaren (A. R.) and Oliver (J. H.) and Renouf and Roquet and Shier and Simpson (J. C.) and Terrance (E. H.), equal; Berry and Clark (H. L.) and Legg and Owens and Rochester and Rorke, equal. *Class II.*—Ambridge and Bleau and Finlayson and Foss (D. B.) and Herman and Holden and McCaw and Murray, equal; Bradshaw (G. R.) and Fagan and LeBaron and Reid, equal; Allan (J. M.) and Denis and Lea and Mills and Patton

and Sherwood and Stethem and Whittemore, equal; Ross (M. V.); Downs and Foss (L. J.) and Held and Munn and Powell (F. E.) and Tallon and White (G. L. W.), equal; Brodeur (J. C.) and Maclaren (A. B.) and Simpson (R. L.) and Streadwick, equal; Braithwaite and Gegg and Gilbert and Kingan and McMeans, equal; Dormer and Elkington and Harling, equal; Cope and Raskin, equal; Buffam and Desbarats and Mignault, equal; Currier and Gooch and Hamilton and Jackson and Moran (T. M.) and Plow, equal; Bishop (E. G.) and Carpenter and Jerrom and Morin (C. A.) and Oliver (C. J.) and Winter, equal; Baillie and Dupuis and Gauthier and McDonald and Munro (G. H.) and Stone, equal; Antliff and Holcomb and Lemieux and Snyder, equal; Caldwell and James, equal. *Class III.*—Bishop (J. G.) and Brodeur (J. P.) and Dalrymple and Parsons and Paterson (A. P.) and Salter, equal; Macpherson and Taylor (M. B.), equal; Harvey; Evans and Goldberg and Patterson (T. B.) and Rhind and White (C. P.), equal; McDermott and Taylor, (C. W.), equal; Hutchison; Foster and Miller and Smeaton and Turley, equal; McCracken and Mallison and Nutting and Poulin and Reaper and Scott (L. J.), equal; Ball and Williams, equal; Adams and McKyes, equal; Leitch; Davidson (S. C. K.) and Dickinson and Zybach, equal; Allan (D. H.) and Brumell and Cornell and Elvidge and Kyle and MacLaren (J. N.) and Martin and Ross (A. E.) and Roughsedge and Wilson (H.), equal.

DESCRIPTIVE GEOMETRY AND PERSPECTIVE.

Second Year.—Class I.—Wain, Desbarats; Hanington and Holt, equal; Armstrong and Bonneville and Weldon, equal; Mott; Fraser and McTaggart and Taber, equal; Clark and Wonham, equal; Bissell and Crawford and Murphy (E. J. O.) and Ross (J. H. D.), equal; Bush and Gnaedinger (P. E.) and Mitchell, equal; Glen and Grant and Tatley, equal; Cartwright and Cousineau, equal; Dobson and Lorin, equal; Brown (E. V.); Holmes and Macrae and Morrisette, equal; Bradfield and Kirsh, equal; Elliot; Carlyle and Carson, equal; Anderson and Biggar and Brown (G. B.) and McLennan and Taylor (J. E.), equal; Clarke and Messenger and Reiffenstein and Simons, equal. *Class II.*—Tucker; Eager and Gaboury and Hamilton, equal; Boronow and Gnaedinger (A. L.), equal; Foss and Humes and Notman, equal; Gooch; Banfill and Farquharson and Fisk and Reid, equal; Chorney and Pevzner, equal; Spratt; Kyle and MacGlashan and Macnaughton and Wait, equal; MacNider and Murphy (A. G. S.) and Wilder, equal; Fry and Gordon, equal;

Bastable and Evans and Martin and Thompson, equal; Benett and Hastings and Loebel and Sherrard, equal; Friedman and Taylor (E. P.), equal. *Class III.*—Reed, Gurman; Coughlan and MacGregor, equal; Mackenzie (G. H.); Brooks and Ford and Ramsey and Turton, equal; Newman and Parker, equal; Drummond and Jandrew and Quinlan and Wheeler and Woolward, equal; McDougall and Root, equal; Ahern and Johnson and Scott and Wilson (J. M.), equal; Morrison, Wilson (H. A.); Davis (S. H.) and Lawrence and Nesbitt and Normandin and Parsons and Reeve and Ross (D. R.) and Wright, equal.

DESIGNING.

Fourth Year.—Class I.—Elderkin, Chisholm, Macpherson. *Class II.*—Twinberrow; McNicoll and Rutherford (A. B.), equal; Scott and Smith (E. H.), equal; Shrimpton, Mackenzie (B. H. T.); Shapter and Vessot, equal. *Class III.*—Rutherford (W. J.), Kirkpatrick.

ECONOMICS.

Third Year.—Class I.—Lantz, Mitchell; Congleton and Giles and Whelen, equal; Green; Jelly and Johnston and Lewis, equal; Loy and Saunders, equal; Anderson and Harrison and McIntyre, equal; Macphail; Bain and Gliddon, equal; Croft and Farmer and Hannan and Louttit and Winslow, equal; Gardner and Thompson, equal. *Class II.*—Jordan and Lordly and McCurdy, equal; Calkin and Challenger and Phelan and Robertson, equal; Canning and Mawdsley, equal; Eaton and Fellows and Kirby, equal; Copping and Cromwell and Davis (Samuel), equal; Cunningham and Perrault and Weldon, equal; Gualtieri and Wells, equal; Hyndman and Wilkins, equal; Fortin and O'Sulivan and Palmer and Shotwell and Vineberg and Ward, equal; Macfarlane and Warriner, equal; Cohen and Hall and Hill, equal; Cambron and Durant and Jackson and Scriver, equal. *Class III.*—Bishop and Forbes and Langstroth and Macdonald, equal; Dewar and Fowler and Henderson and Sloves, equal; Purcell and Thomson, equal; Livingstone; Acton and Brow and Maxwell, equal; Cockfield and Millidge, equal; Gould and Smith (D. W.) and Smith (R. H.), equal; Kay and Mooney, equal; Watson, Perriton; Gauthier and Hurtubise, equal; Abbott-Smith and Clossey and Goodwin and Jenckes and O'Halloran, equal; Farnsworth and Irving and Tison and Vaughan and Wilson, equal.

ELECTRIC LIGHT AND POWER DISTRIBUTION.

Fourth Year.—Class I.—Dunbar, Schippel, Dawson. *Class II.*—Arbuckle. *Class III.*—Windsor; Pope and Code, equal; Creighton; Demers and Thompson, equal; Roberton and Hacker, equal; Standish and Stewart and Patten, equal.

ELECTRIC TRACTION.

Fourth Year.—Class I.—Dunbar and Schippel, equal; Dawson, Pope. *Class II.*—Thompson, Creighton, Stewart. *Class III.*—Demers and Wiggs, equal; Code, Standish, Windsor; Arbuckle and Hacker, equal.

ELECTRICAL DESIGNING.

Fourth Year.—Class I.—Dunbar, Code. *Class II.*—Schippel; Creighton and Roberton, equal; Wiggs. *Class III.*—Standish, Dawson, Hacker, Parnell, Windsor, Stewart, Arbuckle, Pope, Thompson.

ELECTRICAL ENGINEERING.

Fourth Year.—Class I.—Dunbar, Code. *Class II.*—Pope and Thompson, equal; Wiggs. *Class III.*—Schippel, Demers, Windsor; Creighton and Parnell, equal; Dawson, Arbuckle, Stewart.

Third Year.—Class I.—Phelan, Sloves, Canning; Anderson and Jackson, equal. *Class II.*—Macdonald, Acton; Eaton and Fellows, equal; Louttit, Gliddon, Vaughan, Thompson. *Class III.*—Bishop and Vineberg, equal.

ELECTRICAL PHOTOMETRY AND ILLUMINATION.

Fourth Year.—Class I.—Schippel, Dunbar. *Class II.*—Dawson and Roberton, equal; Code and Patten and Pope, equal; Thompson; Creighton and Windsor, equal. *Class III.*—Parnell and Standish, equal; Arbuckle.

ELECTRO METALLURGY.

Fourth Year.—Class I.—Creightton, Thompson, Dawson. *Class II.*—Penney and Schippel, equal; Hacker, Dunbar, Arbuckle; Code and Pope and Stewart, equal. *Class III.*—Windsor and Standish, equal; Parnell, Demers.

ELEMENTS OF ELECTRICAL ENGINEERING.

Fourth and Third Years.—Class I.—Winslow, Eadie; Austin and Henry, equal; Larose; Edwards and McPhail, equal. *Class II.*—Mosher, Erlenborn; Crowe and Davies, equal; Hobart; Gilbert and Wickenden, equal; Taylor and White, equal; Seath, Macklin, Penney, Ross (B.); Gould and Ferrier and Macfar-

lane, equal; Cameron and Labell, equal; Robertson; Cole and Congleton and MacEwen, equal. *Class III.*—Lee, Jenckes; Emery and Lafontaine, equal; Karnes and Millidge and Powell, equal; Wilson; Elder and O'Halloran, equal; Betournay, Edward, Langstroth; Kearns and McCurdy, equal; Ross (J. H.); Dyer and Hall and LaMontagne and Lindsay and Rashback, equal; DeCew and Deneau and Douglas and Durant and Mahaffy and Maxwell and Mooney (F. M.) and Mooney (R. B.), equal.

ENGINEERING ECONOMICS.

Fourth Year.—Class I.—Davies, Gilbert, Eadie, Macklin; Dunbar and Schippel, equal; Larose; Crowe and Twinberrow, equal; Creighton, Austin, Dyer, Labell; Greene and Patten, equal; Mackenzie *Class II.*—Lafontaine and Scott and Wickenden, equal; Chisholm and Elderkin and Mahaffy, equal; Mosher; LaMontagne and Rutherford (A. B.), equal; Cole and Smith (D. T.), equal; DeCew and Hobart and Powell and Robertson, equal; Dawson and Vessot, equal; Hart, Betournay; Code and Ferrier and Wilson, equal; Erlenborn and Mooney and Stewart, equal; Hacker and Shrimpton, equal. *Class III.*—McNicoll and McPhail and Pope, equal; Deneau and Douglas and McLean and Parsons and White, equal; Standish; Roberton and Smith (E. H.), equal; Cameron, Bradley, Ross (B.); Edwards and Lee, equal; Rashback and Windsor, equal; Ross (J. H.), Edward; Arbuckle and Bourret and Emery and Karnes and Kearns and McEwen and Macpherson and Rutherford (W. J.) and Seath and Wiggs, equal.

ENGINEERING LAW.

Fourth Year.—Class I.—Dunbar, Elderkin, Smith (E. H.), Gilbert, Wickenden; Creighton and Greene and Mosher, equal; Shrimpton; Chisholm and DeCew and Eadie and Kearns and Rashback, equal; Davies and Henry and MacEwen and Mackenzie, equal. *Class II.*—Rutherford (A. B.); Millar and Ross (J. H.), equal; Hobart and Macklin, equal; Larose and Penney, equal; Hart; Ferrier and Stewart, equal; Dawson and Labell and Lafontaine and McLean and Robertson, equal; Lee and Ross (B.) and White, equal; Bradley and Macpherson and Parsons, equal; Code and Emery and Karnes and Roberton, equal; Thompson, Edward, Twinberrow; Arbuckle and Austin and Windsor, equal. *Class III.*—Scott, Wiggs; Deneau and McNicoll and Schippel, equal; Fox and Pope, equal; Betournay; Crowe and Vessot, equal; Mahaffy and Seath, equal; Erlenborn; Dyer and

Parnell and Shapter, equal; LaMontagne and Mooney, equal; Kirkpatrick; Bourret and Cole and Demers and Edwards and Elder and Hacker and Smith (D. T.), equal.

ENGLISH.

First Year.—Class I.—Moore; Buller and Toole, equal; Ambridge and Cregeen and Griffith and Hunten and Layne, equal. *Class II.*—Radley, Harbert; Lawrence and MacCallum, equal; Bradshaw (F. W.) and Olive (C. J.), equal; Cooper (H. C. D.) and Stephen, equal; Binns and Bradshaw (G. R.), equal; Bloomfield and Culpeper and Kingan and Laidley and Lewis and Munro (D. J. B.) and Taschereau, equal; Allan (D. H.); Larose and Maclaren (A. B.) and Mills and Rhind and Rochester and Simpson (R. L.), equal. *Class III.*—Bishop (J. G.) and Davies and Finlayson and Gilbert and Kennedy and Matheson and Whittemore, equal; Armstrong and Bishop (E. G.) and Blackall and Buffam and Cuttle and Denis and Horsey and Johnson and LeBaron and McKyes and Peters and Powell (A. T.) and Rorke and Roughsedge and Yorston, equal; Antliff and Baillie and Ball and Carpenter and Champion and Clark and Cox and Fagan and Gegg and Legg and McMeans and Martin (C. K.) and Parsons and Pelletier and Reaper and Shier and Smallhorn and Stirling and Winter and Wood, equal; Allan (J. M.) and Brodeur (J. C.) and Desloover and Gamble and Graham and Macduff and McLeod (A. N.) and Raginsky and Terrance (E. H.) and Timmis and Zyback, equal; Braithwaite and Brisbane and Caldwell and McDermott and Ross (M. V.) and Taylor (C. W.), equal; Amos and Brumell and Currier and Downs and Eadie and Finley and Lea and McEwen and Patton, equal; Adams and Brough and Campbell (D. H.) and Evans and Hambly and Macaulay and Mallison and Olive and Oliver (J. H.) and Roquet and Ross (A. E.) and Snyder and Dickinson, equal; Berry and Cooper (P. E.) and Davidson (S. C. K.) and Goldberg and Katz and Mulligan and Powell (F. E.) and Raskin and Tallon and Turnbull (A. R.) and Wilson (H.), equal; Gaudet and Holden and James and McInnis and McKindsey and Macpherson and Poulin and Simpson (J. C.) and St. Germain and Munro (G. H.), equal; Bleau and Herman and Hutchison and Kyle and Morrin (J. J.) and Owens and Paterson (A. P.) and Plow and Robinson and Scott (J. M.) and Streadwick and Velasco, equal; Renouf; Desbarats and Dormer and Gauthier and Hamilton and Leitch and Macnutt and Morin (C. A.) and Murray and Taylor (A. F.), equal.

EXPERIMENTAL ENGINEERING.

Fourth Year.—Class I.—Elderkin, Chisholm. *Class II.*—McNicoll, Mackenzie; Rutherford (A. B.) and Shrimpton, equal. *Class III.*—Rutherford (W. J.); Scott and Smith (E. H.) and Twinberrow, equal; Vessot; Macpherson and Shapter, equal; Kirkpatrick.

FIRE ASSAYING.

Fourth Year.—Class I.—Taylor, DeCew. *Class II.*—None. *Class III.*—Hobart, Mosher, Smith (D. T.).

Third Year.—Class I.—Bain; Harrison and Jordan, equal; Weldon; Davis (Samuel) and Mawdsley and Palmer, equal; Saunders. *Class II.*—Cromwell, Tansley, Dewar, Brow, Fowler, Wells Armstrong, Nutter. *Class III.*—Livingstone, Douglas; Gualtieri and Scriver, equal.

FOUNDATIONS AND MASONRY.

Third Year.—Class I.—Cunningham; Macphail, Fortin. *Class II.*—Farmer and Hannan, equal; Gardner, Watson, O'Sullivan; Brault and Robertson, equal; Lewis, Loy. *Class III.*—Gauthier and Hurtubise, equal.

FREEHAND DRAWING AND LETTERING.

First Year.—Class I.—Armstrong and Moore, equal; Kennedy and Legg, equal; Larose and McKyes, equal; Lewis and Munro (G. H.) and Wood, equal; Kingan, Hunten; Gaudet and Shier and Stephen, equal; Hamilton; Russell and Toole, equal; Macaulay; Chisholm and Herman and Lane and McKindsey, equal; Desloover and McNaughton and Powell (A. T.), equal; Cregeen and LeBaron, equal; Adams and Faith and McDermott, equal; Cooper (P. E.) and Patton and Rorke and Streadwick and Turnbull (A. R.), equal; Crain and Cuttle and Kotsonas and Maclaren (A. B.) and Plow, equal; Bradshaw (F. W.) and Champion and Munro (D. J.) and Reaper and Sherwood and White (C. P.) and Wylde, equal; Eadie and Oliver (J. H.) and Read and Stirling, equal. *Class II.*—Craik and Harbert and James and Laidley and Macnutt and Radley and Simpson (J. C.), equal; Matheson and Timmis, equal; McMeans and Webster, equal; Binns; Finlayson and Patterson (T. B.) and Raginsky, equal; Bloomfield and Brumell and Martin and Morrin (J. J.) and Roquet, equal; Elvidge and Finley and Foss (D. B.) and Foster and Pelletier and Smith and White (G. L. W.), equal; Baxter and Gordon and Raskin and Smeaton and Stethem and Willis, equal; Allan (J. M.)

and Fagan and Jerrom and Lawrence, equal; Brisbane and Gilbert and MacLaren (J. N.) and Morin (C. A.), equal; Bieler and Goldberg and Livingstone, equal; Ball and Bradshaw (G. R.) and Buffam and Cornell and Culpeper and Dickinson and Grant, equal; Buraschi and Griffith and Moseley and Mulkins and Murphy (E. J. O.) and Reid, equal; Currier and Holcomb and Mulligan and Scott (J. M.), equal; Downs. *Class III.*—Antliff and Evans and McDonald and Oliver (C. J.) and Rhind and Terrance (E. H.), equal; Ambridge and Baillie and Davies and Gamble and Parsons and Rochester, equal; Blackall and Braithwaite and Carpenter and Holden and Johnson and Katz and McLagan and MacLaren (A. R.) and Roughsedge and Taylor (C. W.), equal; Peters; Bishop (J. G.) and Cope and Elkington and Olive and Owens and Smallhorn and Taschereau and Taylor (M. B.) and Winter, equal; Caldwell and Campbell (A. T.) and Fleming and Jackson and Marcionelli and Mills and Zybach, equal; Horsey and Hutchison and Ross (M. V.), equal; Abbott-Smith and Brough and Echlin and Nutting and Wilson (H.), equal; Dalrymple and Davis and McCaw and Whittemore and Yorston, equal; Berry and Paterson (A. P.) and Scott (L. J.), equal; Brodeur (J. P.) and Foss (L. J.) and Leitch and MacCallum and Timmis (L. H.), equal; Cox and Gegg and Held and McEwen, equal; Campbell (D. H.); Clark (H. L.) and Miller and Snyder, equal; Allan (D. H.) and Bleau, equal.

GEODESY.

Fourth Year.—Class I.—None. *Class II.*—Davis and Eadie, equal; Wickenden, Macklin, Greene, Ferrier, Austin; Betournay and Dineen, equal; Hart and Robertson (R. McF.), equal; LaMontagne, MacEwen. *Class III.*—McPhail, Powell, Seath; Elder and Ross (B.), equal; Cole and McLean and Mahaffy, equal; Wilson.

GEODETIC FIELDWORK.

Fourth Year.—Class I.—Eadie and Robertson (R. McF.), equal. *Class II.*—Cole and Ferrier, equal; Deneau; Betournay and MacEwen, equal; Austin and Wickenden, equal; Powell; Seath and Wilson, equal. *Class III.*—McLean, Greene; LaMontagne and Mahaffy, equal; Hart and Macklin, equal.

GEOLOGY FIELD SCHOOL.

Fourth Year.—Class I.—Gilbert; Douglas and Emery, equal. *Class II.*—Bradley, Bourret. *Class III.*—None.

GEOLOGY (GENERAL).

Third Year.—Class I.—Bain, Farmer, Timmerman, Brow, Mawdsley. *Class II.*—Gardner, Saunders; Cromwell and Tansley, equal; Weldon, Cunningham, Jordan, Hannan; Henderson and Livingstone, equal; Cohen; Brault and Clossey and Davis (S.) and Lewis and Wells, equal. *Class III.*—Fowler and O'Sullivan, equal; Scriver; Fortin and Watson, equal; Harrison, Gualtieri; Loy and Robertson, equal; Nutter, Rochester (L. B.); Hurtubise and Macphail, equal; Dewar, Ferguson; Gauthier and Muir, equal.

GEOLOGY (HISTORICAL).

Fourth Year.—Class I.—Gilbert. *Class II.*—Douglas, Emery, Bradley. *Class III.*—None.

GEOLOGY OF CANADA.

Fourth Year.—Class I.—Gilbert and Henry, equal; Lee, Edwards, Douglas, Erlenborn. *Class II.*—Emery, Dyer. *Class III.*—White, Bourret, Karnes, Bradley.

GRAPHICAL STATICS.

Second Year.—Class I.—Fraser, Perry, Macrae, Brooks; Carlyle and Weldon, equal; Banfill and Carson and Luke and McTaggart and Wilder, equal; Bonneville and Foss and Gnaedinger (P. E.) and Pevzner and Reiffenstein, equal; Tucker, Mott, Bastable; Boronow and Cousineau and Messenger, equal; Biggar and Clark and Coughlan and Desbarats, equal; Morrisette. *Class II.*—Holt; Clarke and Dobson and Hanington and Spratt, equal; Armstrong; Taber and Wonham, equal; Bush and Crawford and Martin, equal; Holmes and Pfeiffer, equal; Cartwright and Eager and Kyle and MacKeen and Reid and Ross (J. H. D.), equal; Bradfield and Mitchell (J. M.) and Simons, equal; Brown (L. E.) and Loebel, equal; Hastings and Notman and Tatley and Wilson (H. A.), equal; Bissell and Chorney and Gnaedinger (A. L.) and Ramsey, equal; Ahern and MacNider, equal; McDougall and Morris, equal; Glen and Kirsh and Scott, equal. *Class III.*—Lorin; Friedman and Gordon and Normandin and Salter, equal; Fry and Gurman and McLennan and Wain and Wiggs and Woolward, equal; Anderson and Brown (E. V.) and Farquharson and Mackenzie (G. H.), equal; Quinlan and Reed, equal; King and Wright, equal; Grant; Brown (G. B.) and Drummond and Ford and Hamilton and Macnaughton, equal; Kerr, Wait; Fotheringham and MacGregor, equal; Evans, Humes; Jan-

drew and MacGlashan and Thompson and Wilson (J. M.), equal; Benett and Bethune and Cromwell and Reeve and Root and Taylor (E. P.) and Turton and Watt and Wheeler and Wilson (S. H.), equal.

HEATING AND VENTILATION.

Fourth Year.—Class I.—Elderkin. *Class II.*—Chisholm, Shrimpton, Shapter; Scott and Vessot, equal; McNicoll, Smith (E. H.). *Class III.*—Kirkpatrick; Mackenzie (B. H. T.) and Rutherford (A. B.), equal; Macpherson, Twinberrow, Rutherford (W. J.).

HYDRAULICS.

Fourth and Third Years.—Class I.—Chisholm and Eadie and Elderkin, equal; Cunningham, Farmer, Ferrier, Austin; Dunbar and Greene, equal; Gardner and Macphail (J. B.) and Schippel, equal; Wickenden. *Class II.*—Kirkpatrick; Smith (E. H.) and Windsor, equal; McPhail (D. S.); Robertson and Shapter and Watson, equal; Gauthier and Mackenzie, equal; Davies, Rutherford (A. B.), Shrimpton, Lewis, Hurtubise. *Class III.*—O'Sullivan and Seath, equal; Ross; Arbuckle and Dawson and Scott, equal; Brault and Hannan, equal; Betournay and Hacker, equal; Muir; Macklin and Twinberrow, equal; Code and Thompson, equal; Creighton and Demers and Fortin and Vessot, equal; Cole and Ferguson and Loy and McLean and Roberton and Rutherford (W. J.), equal. *Unranked.*—McNicoll.

HYDRAULICS AND LABORATORY (SHORT COURSE).

Fourth Year.—Class I.—Taylor, Gilbert. *Class II.*—Larose; Bradley and Mosher, equal; Ross (J. H.), Henry; DeCew and Labell, equal; Lafontaine, Edward. *Class III.*—Crowe; Douglas and White, equal; Cameron and Edwards, equal; Erlenborn, Lee, Dyer, Kearns, Emery.

HYDRAULIC MACHINES.

Fourth Year.—Class I.—Eadie and Elderkin, equal; Chisholm and Ferrier, equal; Lindsay and Smith (E. H.), equal; Austin and Davies, equal. *Class II.*—Greene and Shapter, equal; McPhail, Shrimpton, Wickenden; Seath and Twinberrow, equal; Cole and Robertson, equal. *Class III.*—Mahaffy, Kirkpatrick, Ross (B.), Deneau, Scott, Macpherson; LaMontagne and Macklin, equal; Hart and MacEwen, equal; Elder and Powell, equal.

LABORATORIES.

CHEMICAL LABORATORY.

Second Year.—Class I.—Weldon, Gurman; Carlyle and Tatley, equal; Bush and McTaggart, equal; Dobson and Gnaedinger (P. E.) and Grant and Taber, equal; Benett and Carson, equal. *Class II.*—Bastable and Brooks and Desbarats and Hanington and Murphy (A. G. S.), equal; Wright; Bissell and Mitchell (J. M.) and Wain, equal; Drummond, Hastings; Ahern and Messenger and Ross (J. H. D.), equal; Fraser and Loebel and McLennan, equal; Farquharson; Clarke and Gordon and Holmes and Macnaughton and Mott, equal; Hamilton; Boronow and Fry and Jandrew and Kyle and Midgley and Pevzner and Ross (D. R.), equal; Nesbitt and Thompson, equal; Banfill and Biggar and Bradfield and Brown (G. B.) and Buchanan and Cartwright and Evans, equal; Clark and Morrisette and Taylor (E. P.), equal. *Class III.*—Crawford and McGregor and Mackenzie (G. H.) and Reiffenstein, equal; Chorney and King and Lorin, equal; Bonneville and Brown (E. V.) and MacKeen and Reed and Root and Wait, equal; Anderson and Cousineau and Kirsh and Simons and Spratt and Woolward, equal; Gnaedinger (A. L.) and Humes, equal; Duff; Wilson (J. M.) and Wonham, equal; Holt and MacNider, equal; Foss and Jenks and Parker, equal; Armstrong and Ford, equal; Davis (S. H.) and Reid and Wilder, equal; Glen and Munro and Wilson (H. A.), equal; Fotheringham and Macrae and Murphy (Justin), equal; Kerr and Scott and Wheeler, equal; Johnson and Macoun and Martin and Morrison and Notman and Quinlan and Tucker and Turton, and Williams and Wilson (S. H.), equal.

Second Year (Chemistry and Metallurgy Courses).—Class I.—Binmore. *Class II.*—Taylor (J. E.), Schleifstein. *Class III.*—None.

CHEMICAL LABORATORY (INORGANIC LABORATORY).

Fourth Year (Chemical Engineering Course).—Class I.—DeCew and Taylor, equal. *Class II.*—Hobart. *Class III.*—Kearns, Smith (D. T.).

Fourth Year (Chemistry Course).—Class I.—None. *Class II.*—Millar. *Class III.*—None.

CHEMICAL LABORATORY (INORGANIC QUALITATIVE ANALYSIS).

Third Year.—Class I.—Bain. *Class II.*—Brow and Livingstone, equal; Cromwell; Armstrong and Scriver, equal. *Class III.*—Davis (Samuel) and Dewar, equal; Mawdsley and Weldon, equal; Tansley and Wells, equal; Gualtieri and Rochester (L. B.), equal; Saunders.

Second Year (Chemistry and Metallurgy Courses).—Class I.—Schleifstein, Taylor (J. E.), Binmore. *Class II.*—None. *Class III.*—None.

CHEMICAL LABORATORY (INORGANIC QUANTITATIVE ANALYSIS).

Fourth Year (Metallurgical Engineering Course).—Class I.—None. *Class II.*—None. *Class III.*—Penney.

Third Year (Chemical Engineering Course).—Class I.—Jelly, Mitchell, Lantz, Johnston. *Class II.*—Smith (R. H.), Harris, Green, Giles; Challenger and Forbes, equal; Cuddy and Warriner, equal; Croft and Goodwin and Kay and Stroud and Yates, equal. *Class III.*—Copping, Cockfield; Cambron and Rochester (G. H.), equal; Calkin and Gibbs, equal; Hyndman and Irving, equal; Abbott-Smith and Purcell, equal; Cloutier and Mackenzie and Patterson and Shotwell, equal.

Third Year (Chemistry Course).—Class I.—Timmerman. *Class II.*—None. *Class III.*—Cohen.

Third Year (Metallurgical Engineering Course).—Class I.—None. *Class II.*—Jordan, Fowler, Harrison, Nutter. *Class III.*—Clossey.

Third Year (Metallurgy Course).—Class I.—None. *Class II.*—Henderson. *Class III.*—None.

CHEMICAL LABORATORY (ORGANIC).

Fourth Year.—Class I.—Lafontaine, Cameron. *Class II.*—Larose, Mosher, Crowe; Ross (J. H.) and Labell, equal; Edward. *Class III.*—Parsons, Fox, Rashback.

Third Year.—Class I.—Johnston; Copping and Cuddy and Hyndman and Stroud, equal; Mitchell; Jelly, Harris; Green and Lantz and Timmerman, equal; Croft and Kay and Thomson, equal; Shotwell; Purcell and Smith (R. H.) and Warriner, equal. *Class II.*—Millidge; Calkin and Forbes and Gibbs and Rochester (G. H.), equal; Giles and McIntyre, equal; Challenger and Patterson, equal; Abbott-Smith; Cambron and Goodwin, equal; Yates, Cockfield, Lordly. *Class III.*—Mackenzie; Cohen and Irving, equal.

ELECTRICAL ENGINEERING LABORATORY.

Fourth Year (Electrical Engineering Course).—Class I.—Creighton, Dunbar, Roberton, Schippel, Dawson. *Class II.*—Parnell, Code, Thompson, Pope, Hacker. *Class III.*—Standish, Patten, Arbuckle, Wiggs, Stewart, Demers, Windsor.

Fourth and Third Years.—Class I.—Eadie, Robertson; Cole and Wilson (E. P.), equal; Betournay and Deneau and Larose, equal; Austin; Ferrier and Erlenborn, equal; Davies; Henry and Maxwell and Mooney (R. B.), equal; Congleton and Edwards and Gould and MacEwen, equal; LaMontagne and Macfarlane and Smith (D. W.), equal; Jue and Lafontaine and McCurdy and McPhail (D. S.) and O'Halloran, equal; Karnes and White, equal; Powell; Gilbert and Millidge and Winslow, equal; Ross (B.); McLean and Penney and Wickenden, equal. *Class II.*—Macklin; Mosher and Seath, equal; Cameron (E. P.) and Hall and Jenckes, equal; Crowe; Douglas and Lindsay, equal; Edward; Farnsworth; Elder and Emery and Perriton, equal; Hart; Mahaffy and Parsons, equal; Langstroth; Durant and Labell and Wilkins and Wilson (J. K.), equal; Lee and Rashback, equal. *Class III.*—Dyer and Hobart, equal; DeCew and Taylor, equal; Ross (J. H.), Ward, Kearns, Smith (D. T.), Bradley, Bourret.

Third Year (Electrical Engineering Course).—Class I.—Phelan, Anderson, Hill, Fellows, Vineberg. *Class II.*—Louttit, Thompson, Jackson, Acton, Eaton, Vaughan, Bishop, Gliddon, Kirby, Kennedy, Canning. *Class III.*—Tison, Whelan, Macdonald, Sloves, Salamis, Clerk.

ELECTRO-METALLURGY LABORATORY.

Fourth Year.—Class I.—Penney. *Class II.*—None. *Class III.*—None.

GEODETIC LABORATORY.

Fourth Year.—Class I.—None. *Class II.*—Deneau, Robertson (R. McF.); Eadie and Wickenden, equal; Betournay and Davies and MacEwen and Ross (B.) and Seath, equal; Cole and Ferrier, equal; Austin and Powell, equal. *Class III.*—Elder and Wilson, equal; Mahaffy; Greene and McLean and McPhail and Macklin, equal; LaMontagne, Hart.

HYDRAULICS LABORATORY.

Fourth and Third Years.—Class I.—Eadie, Dunbar, Code, Austin; Chisholm and Elderkin and Schippel, equal; Vessot; Creighton and Cunningham and Seath, equal. *Class II.*—Fortin and Gauthier, equal; McNicoll; Betournay and Cole and Farmer and Robertson (R. McF.) and Twinberrow, equal; Ferrier and Robertson (A. M.), equal; Kirkpatrick and Mackenzie (B. H. T.) and Rutherford (A. B.) and Shapter, equal; Dawson and Macphail (J. B.) and Pope, equal; Gardner and Millidge and Wiggs and Wilson and Windsor, equal; Davies and Hannan and

Wickenden, equal; Loy and Macpherson and Muir and Roberton and Smith (E. H.), equal; Hurtubise and O'Sullivan, equal; Brault and McPhail (D. S.) and Thompson (T. C.), equal; McLean and Shrimpton, equal; Perrault and Scott and Watson, equal. *Class III.*—Lewis; Greene and Ross (B.), equal; Rutherford (W. J.); Macklin and Parnell, equal; Arbuckle and Demers and Ferguson and Stewart and Hacker, equal.

MECHANICAL ENGINEERING LABORATORY.

Fourth Year.—Class I.—Chisholm. *Class II.*—Elderkin, McNicoll, Shrimpton, Vessot. *Class III.*—Smith (E. H.), Mackenzie, Kirkpatrick; Rutherford (A. B.) and Scott, equal; Macpherson; Shapter and Twinberrow, equal; Rutherford (W. J.).

Third Year (General Course).—Class I.—Congleton, Dewar, Winslow, Croft, Jelly, Green. *Class II.*—Warriner, Shotwell; Lantz and Macphail, equal; Cunningham and Maxwell and O'Halloran, equal; Bain and Gould and Hannan, equal; Johnston; Farmer and Gardner, equal; Harrison and McCurdy, equal; Fortin and Kay and Mooney, equal; Brow and Cuddy and Fowler and Macfarlane and Mitchell, equal; Palmer; Jordan and Langstroth, equal; Cockfield and Hall and Mawdsley and Watson and Weldon, equal; Hurtubise and Lordly and McIntyre, equal; Hyndman. *Class III.*—Durant, Goodwin; Brault and Cambron and Gibbs and Robertson, equal; Forbes and Lewis and Smith (R. H.), equal; Copping and Loy, equal; Farnsworth and Purcell, equal; Calkin and Davis (Samuel), equal; Saunders; Clossey and Irving and Muir and Nutter and Perriton and Ward, equal; Smith (D. W.); Gauthier and Henderson and Jenckes and O'Sullivan and Wells, equal; Challenger and Livingstone, equal; Cromwell and Stroud, equal.

Third Year (Electrical Engineering Course).—Class I.—Phelan; Anderson and Jackson, equal; Fellows and Louttit, equal; Gliddon; Canning and Eaton, equal; Bishop, Vineberg, Thompson. *Class II.*—Kirby, Salamis, Hill, Acton, Vaughan; Macdonald and Whelen, equal. *Class III.*—Clerk, Kennedy.

METALLURGICAL LABORATORY (THESIS).

Fourth Year.—Class I.—Penney. *Class II.*—None. *Class III.*—None.

ORE DRESSING LABORATORY.

Fourth Year.—Class I.—Gilbert and White, equal; Douglas and Edwards and Emery and Erlenborn and Henry, equal. *Class II.*—Bradley and Dyer, equal; Lee. *Class III.*—Mooney, Jue.

Fourth Year.—Class I.—Dawson. *Class II.*—Standish. *Class II.*—None.

Second Year.—Class I.—Taber and Weldon, equal. *Class II.*—Bissell; Binmore and Grant, equal; Carlyle and Wonham, equal; Clarke and Fry and Lorin and Woolward, equal; Brooks and Farquharson and Pevzner and Wain, equal; Bonneville and Fraser and Tatley, equal; Brown (G. B.) and Bush and Hanington and King and Messenger, equal; Banfill and Boronow and Dobson and Ford and Gnaedinger (A. L.) and McCallum and Wilder and Wilson (S. H.), equal; Anderson and Carson and Desbarats and Gnaedinger (P. E.) and McDougall and McTaggart and Notman and Parker, equal; Armstrong and Bastable and Biggar and Cartwright and Wilson (J. M.), equal; Morrisette and Taylor (J. E.) and Tucker, equal; Bradfield and Glen and Gordon and McLennan, equal. *Class III.*—Buchanan and Clark and Fisk and Gurman and Hastings and Nesbitt, equal; Mitchell and Murphy (A. G. S.) and Wait, equal; Duff and Eager, equal; Foss and Holt and Jandrew and MacGregor and Spratt, equal; Evans and Mackenzie (G. H.) and Mott and Ramsey and Thompson, equal; Ahern and Crawford and MacKeen and Wilson (H. A.), equal; Davis and Macrae, equal; Bethune and Cousineau and Drummond and Elliot and Loebel and Quinlan and Ross (D. R.), equal; Fotheringham and Gaboury and Holcomb and Holmes and Kirsh and Macnaughton and Munro and Turton and Wheeler, equal; Benett and Hamilton and Williams and Wright, equal; Jenks and Kyle and Reiffenstein, equal; Morrison and Reed, equal; Simons; Cromwell and Scott, equal; Dineen and Humes and Kerr and Lawrence and Macoun and Murphy (E. Justin) and Normandin and Reeve and Ross (J. H. D.) and Schleifstein and St. Germain and Taylor (E. P.), equal.

First Year.—Class I.—Larose, Toole; Cooper (P. E.) and Lewis and Harbert, equal; Faith; Binns and Johnson, equal; Buller and Chisholm and Legg and Moore, equal; Cregeen and Downs and Shier and Stephen and Morin (C. A.), equal; Jackson and Wood and Culpeper, equal. *Class II.*—Eadie and Finley and Foss (D. B.) and Peters and Radley and Taylor (C. W.) and Terrance (E. H.), equal; Gamble and Graham and Laidley and Matheson and Plow and Raginsky and Reaper and Ross (M. V.) and Simpson (R. L.) and Streadwick and Whittemore, equal; Armstrong and Bleau and Bradshaw (G. R.) and Brisbane and Rorke, equal; Carpenter and Gordon and Harvey and Layne and Ross (A. E.) and Smith, equal; Craik and Crain

and Davis and Gegg and Griffith and Held and Munro (D. J. B.), equal; Antliff and Jerrom and Kingan and Maclaren (A. B.) and Lawrence (A. R.), equal; Champion and Kennedy and Macaulay and Pelletier and Raskin and Timmis and Turnbull (A. R.), equal; Brough and Elkington and McCaw and Mills and Patton, equal; Bishop (E. G.) and Buffam and Dickinson and Dormer and Fagan and McLagan and Powell (A. T.) and Rochester and Sherwood and Willis, equal; Bieler and Brodeur (J. C.) and Desbarats and Foster and Mulligan and Olive and Roquet, equal; Ball and Campbell (D. H.) and Clark and Cross and Dalrymple and Denis and Evans and Foss (L. J.) and Gilbert and Herman and LeBaron and McKindsey and MacLaren (A. R.) and Macpherson and Munro (G. H.) and Webster and Wilson (H.), equal; Currier and Finlayson and McNaughton and O'Heir and Scott (J. M.) and Stirling, equal; Allan (D. H.) and Allan (J. M.) and Caldwell and Cornell and Desloover and Grant and McMeans and Martin and Read and Rhind and Winter and Zybach, equal; Livingstone and Mignault and Oliver (C. J.) and Oliver (J. H.) and Parsons and Powell (F. E.), equal. *Class III.*—Bloomfield and Goldberg and Mallison and Owens and Roughsedge and White (G. L. W.), equal; Patterson (T. B.); Berry and Bradshaw (F. W.) and Hamilton and Hunten and Kyle and Macnutt and Moran (T. M.) and Murphy (M. P.) and Smallhorn, equal; Baillie and Brodeur (J. P.) and Brumell and Davies and Lawrence (F. S.) and MacCallum and McDermott and Miller, equal; Abbott-Smith and Bishop (J. G.) and Cuttle and Lemieux and Parrott and Snyder, equal; Adams and Blackall and Dupuis and Emo and Gaudet and Leitch and Scott (L. J.) and White (C. P.) and Yorston, equal; Ambridge and Baxter and Braithwaite and Katz, equal; Cope and Hamel and McKyes and MacLaren (J. N.) and Simpson (J. C.), equal; Davidson (S. C. K.) and Holden and Moseley, equal; Liersch and McCracken and McEwen, equal; Taschereau; Ahern and Smeaton and Taylor (J. E.), equal; Nutting and Robinson and Stone and Tallon, equal; Hambly and Turnbull (K. H.), equal; Fleming and Paterson (A. P.) and Salter and Taylor (M. B.), equal.

STRENGTH OF MATERIALS LABORATORY.

Third Year.—Class I.—Anderson, Jelly, Cunningham; Cuddy and Johnston, equal; Louttit; Green and Macphail, equal; Brow; Fortin and Gould, equal; Congleton and Lantz and Muir, equal. *Class II.*—Palmer and Warriner, equal; Canning, Harrison; Bain and Winslow, equal; Mitchell; Watson and Weldon, equal; Fel-

lows and Fowler, equal; Copping; Phelan and Saunders and Vineberg, equal; Hall and Jackson and Mawdsley and Maxwell, equal; Thompson; Farmer and Perriton, equal. *Class III.*—Acton; Calkin and Gliddon, equal; Dewar and Hannan and McIntyre and Purcell, equal; Forbes and McCurdy and Perrault, equal; Brault and Eaton and Kay, equal; Davis (Samuel) and Gardner and Giles and Lordly, equal; Smith (R. H.) and Stroud and Whelen, equal; Challenger and Irving and Macdonald and Macfarlane and O'Sullivan and Smith (D. W.) and Tansley and Wilson (J. K.), equal; Clossey and Croft and Salamis, equal; Durant and Farnsworth and Lewis and Nutter, equal; Cromwell and Kennedy and Loy, equal; Gibbs and Goodwin and Hurtubise and Langstroth and Livingstone, equal; Clerk and Gauthier and Hill and O'Halloran and Rochester (G. H.), equal; Hyndman and Jordan, equal; Cockfield and Robertson, equal.

MACHINE DESIGN.

Fourth Year (*Electrical Engineering Course*).—*Class I.*—Schippel, Dunbar. *Class II.*—Creighton, Dawson; Code and Hacker, equal; Arbuckle, Thompson, Windsor. *Class III.*—Roberton, Pope, Stewart; Parnell and Wiggs, equal.

Fourth Year (*Mechanical Engineering Course*).—*Class I.*—Chisholm and Elderkin, equal. *Class II.*—Shrimpton, McNicoll, Shapter, Kirkpatrick, Scott, Mackenzie (B. H. T.), Twinberrow. *Class III.*—Macpherson and Smith (E. H.), equal; Vessot, Rutherford (A. B.), Rutherford (W. J.).

Third Year.—*Class I.*—Gould, Congleton, Anderson, Gliddon, Acton, Jackson, Canning; Fellows and Langstroth and Winslow, equal; Macdonald and Phelan, equal. *Class II.*—Eaton and Louttit, equal; Maxwell, Vineberg, Whelen, McCurdy; O'Halloran and Thompson, equal; Mooney, Macfarlane. *Class III.*—Perriton, Kennedy; Hall and Smith (D. W.), equal; Durand and Kirby, equal; Bishop, Farnsworth, Hill, Salamis.

MANUFACTURING PLANT DESIGN.

Fourth Year.—*Class I.*—Mackenzie. *Class II.*—Vessot, Rutherford (A. B.), Rutherford (W. J.). *Class III.*—None.

MAP PROJECTIONS.

Third Year.—*Class I.*—Fortin. *Class II.*—Gardner and Macphail, equal; Farmer, Cunningham; Brault and O'Sullivan, equal; Gauthier and Robertson, equal; Perrault, Hannan; Lewis and Watson, equal. *Class* III.—Hurtubise, Ferguson, Loy.

MAPPING.

Second Year.—Class I.—Gnaedinger (P. E.) and Holt, equal; MacKeen and Notman, equal; McLennan and Macrae, equal; Fraser and Kirsh, equal; Bastable; Burman and Mitchell (J. M.) and Morrisette and Taber, equal. *Class II.*—Carson and Grant and Wain, equal; Perry and Wiggs, equal; Biggar and Loebel and Munro, equal; Bissell and Bonneville and Hanington and McDougall and Tucker, equal; Gnaedinger (A. L.) and King and Lorin and McTaggart and Weldon, equal; Buchanan and Holmes and Messenger and Pevzner, equal; Armstrong and Banfill and Brooks and Desbarats and Ford and Murphy (A. G. S.), equal; Carlyle and Clark and Dobson and Hamilton (P. D. P.) and Normandin and Woolward, equal; Brown (G. B.); Ahern and Eager and Foss and Fry and Simons, equal; Anderson and Gaboury and Gordon and Humes and Nesbitt, equal; Cousineau and Duff and Friedman and Hastings and MacNider and Reed and Reiffenstein and Spratt and Tatley, equal; Bush and Jandrew and Lawrence and Macnaughton and Morris and Murphy (E. J. O.), equal; Holcomb; Boronow and Clarke and Fisk and Kerr and Quinlan and Reid and Ross (D. R.) and St. Germain, equal. *Class III.*—Brown (E. V.) and Crawford and Evans and Hunter and Wilson (S. H.), equal; Bradfield and Cartwright and Wheeler and Wonham, equal; Glen and Wright, equal; Farquharson and Kyle and Luke and Mott and Watt, equal; Jenks and Mackenzie (G. H.) and Martin and Parker, equal; Chorney and McGlashan and MacGregor, equal; Pfeiffer; Drummond and Newman and Taylor (E. P.) and Wilson (H. A.) and Wilson (J. M.), equal; Fotheringham and Wait, equal; Ramsey; Morrison and Turton and Wilder, equal; Cromwell and Murphy (E. Justin), equal; Benett; Johnson and Reeve and Ross (J. H. D.), equal.

MATERIALS OF CONSTRUCTION.

Second Year.—Class I.—Desbarats and Holt, equal; Tatley and Taylor (J. E.), equal; Bastable and Brooks and Woolward, equal; McTaggart and Weldon, equal; Wilder, MacKeen, Bush; Ahern and Biggar and Binmore and Bissell and Dobson and Grant and Mitchell (J. M.), equal. *Class II.*—Parker and Wright, equal; Coughlan and Holmes, equal; Evans and Lorin, equal; Carlyle and Mott and Munn, equal; Hanington and McDougall, equal; Bonneville and Ford and Jandrew, equal; Banfill and McLennan, equal; Crawford and Jenks, equal; Ross (J. H. D.) and Benett and MacGregor and Messenger, equal; Gordon and Humes and Morrisette and Taber, equal; Carson and Clark and

Lawrence and Wain, equal; Harling and Hastings, equal; Gaboury and Murphy (E. J. O.), equal. *Class III.*—Bradfield and Buchanan and Gnaedinger (P. E.) and Macrae and Palmer and Pevzner, equal; Wilson (H. A.); Brown (G. B.) and Fraser and Kyle and Nesbitt, equal; Fisk and Wilson (S. H.), equal; Eager and Foss and Reiffenstein, equal; Reid, Boronow and Hamilton (P. D. P.) and Kerr and Macnaughton and Notman, equal; Drummond and Farquharson and Reed, equal; King and Simons, equal; Brown (E. V.); Munro and Wonham, equal; Anderson and Midgley and Normandin, equal; Spratt; Armstrong and Cromwell, equal; Chorney and Dineen and Gurman and Loebel and MacGlashan and Quinlan and Ross (D. R.) and Taylor (E. P.) and Williams, equal.

MATHEMATICS.

ALGEBRA.

First Year.—Class I.—Culpeper, Moore, Harbert; Faith and Kennedy, equal; Larose and Oliver (J. H.), equal; Laidley, Layne; Hunten and Rochester, equal; Crain and Toole, equal. *Class II.*—Munro (D. J.), Craik; Cregeen and Stephen, equal; Binns and Bleau and Buller and Foss (D. B.), equal; Eadie; Ambridge and Davies and Gegg and Yorston, equal; Buffam and Pelletier, equal; Lewis; Bloomfield and Gordon and Radley, equal; Bradshaw (G. R.) and Cooper (P. E.) and Grant and Macaulay and White (G. L. W.) and Wood, equal; Bishop (E. G.) and Brodeur (J. C.) and McKindsey and Powell (A. T.), equal; Brisbane and Cooper (H. C. D.) and Peters and Ross (M. V.) and Smallhorn and Tallon and Willis, equal; Armstrong and Baxter and Finlayson and McNaughton and Roquet, equal; Allan (J. M.) and Brodeur (J. P.) and Caldwell and Davis and Downs and Dupuis and Finley and Horsey and LeBaron and Legg and Livingstone and McLagan and Matheson and Mills and Munn and Munro (G. H.) and Terrance (E. H.) and Turnbull (A. R.) and Webster, equal. *Class III.*—Bieler and Blackall and Desbarats and Desloover and Graham and Sherwood, equal; Cross and Held and Mulligan, equal; Johnson and Lemieux and Parsons, equal; Gaudet and Griffith and Lawrence and Whittemore, equal; Ball and Chisholm and Fagan and Smith, equal; Cuttle and Herman and McCracken and McLeod and Macpherson and Patterson (T. B.), equal; Brough and Harling and Holden and Katz and McDermott and MacLaren (A. R.) and Read and Taschereau, equal; Davidson (S.

C. K.); Bishop (J. G.) and Campbell (D. H.) and Clark and Maclaren (A. B.) and Simpson (R. L.), equal; Abbott-Smith and Gamble and McCaw and Mallison and Morin (C. A.) and Powell (F. E.) and Raginsky and Renouf and Scott (L. J.) and Timmis, equal; Adams and Dormer and Rorke, equal; Kingan and McMeans and Zybach, equal; Denis and McDonald and Stone and Streadwick, equal; Amos and Antliff and Berry and Bradshaw (F. W.) and Carpenter and Cox and Currier and Dalrymple and Dickinson and Evans and Fleming and Foss (L. J.) and Foster and Goldberg and Hamilton and Harvey and Holcomb and Hutchison and Jackson and Jerrom and Leitch and Murphy (M. P.) and Oliver (C. J.) and Owens and Parrott and Patton and Raskin and Reaper and Scott (J. M.) and Simpson (J. C.) and Snyder and Stirling and Taylor (C. W.) and Taylor (M. B.) and Winter and Wylde, equal.

ANALYTIC GEOMETRY.

Second Year.—Class I.—Taber; Bonneville and McTaggart and Mott, equal; Cartwright; Chorney and Clarke (E. L.), equal; Hastings; Fisk; Bradfield and Dobson and Weldon, equal; Brooks and Fraser and Murphy (A. G.) and Parsons, equal; Bissell and Kerr, equal. *Class II.*—Armstrong and Binmore and Carlyle and Farquharson and Morrisette, equal; Loebel, Hanington; Biggar and Lawrence and McLennan, equal; Desbarats and Wonham, equal; Glen and Kyle, equal; Bush and Jandrew and Normandin, equal; Johnson and Tatley and Wilson (S. H.), equal; Evans and Ford and Ramsey and Wilder and Woolward, equal; Ross (J. H. D.); Carson and Grant and Taylor (J. E.), equal; Banfill and Clark (G.) and Drummond and McCallum, equal. *Class III.*—Buchanan and Holt and Reed, equal; Fotheringham and Messenger, equal; Brown (G. B.) and Eager and McDougall and Murphy (Justin), equal; Cousineau, Parker; Crawford and Pevzner, equal; Lorin and Munro and Taylor (E. P.) and Tucker, equal; Fry; Foss and Holmes and Reid, equal; Bastable and Brown (E. V.) and MacGregor and MacNider and Thompson, equal; Benett and Kirsh and Simons and Spratt, equal; Anderson and Boronow and Cromwell and Gordon and Hamel and King and MacKeen and Mackenzie (G. H.) and Macoun and Patterson and Root and Schleifstein and Scott and Wain, equal.

CALCULUS.

Third Year.—Class I.—Anderson; Canning and Eaton, equal; Vineberg, Bishop, Thompson, Fellows. *Class II.*—Gliddon, Jackson. *Class III.*—Acton, Salamis, Hill.

Second Year.—Class I.—Taber, Bush; McTaggart and Mott, equal; Dobson; Weldon and Wilson (J. M.), equal; Brooks; Kyle and Morrisette, equal; Carson. *Class II.*—Biggar and Crawford and Harris and Messenger, equal; Brown (E. V.), Bonneville, Holmes; Carlyle and Tatley, equal; Cartwright and Gurman, equal; Binmore and Bissell and Clarke and Cousineau and Murphy (A. G. S.) and Wonham, equal; Martin, Bradfield; Hastings and Taylor (J. E.), equal; Desbarats and Wain, equal; Eager and Woolward, equal; Banfill. *Class III.*—Gordon and Loebel and McLennan and Parker and Patterson and Ross (J. H. D.), equal; Boronow and Gnaedinger (A. L.) and Lawrence, equal; Grant and Johnson and Pevzner and Spratt, equal; Armstrong, Farquharson; Evans and Hanington, equal; Clark and Root and Salter, equal; Fraser, Lorin; MacGregor and Mackenzie (D. G.) and Normandin and Quinlan and Reed and Simons, equal; Duff and Elliot and Mackenzie (G. H.), equal; Macrae; Drummond and Fry and Kerr and McDougall, equal; Bastable and Brown (G. B.) and Gnaedinger (P. E.) and Macnaughton and Reiffenstein, equal; Benett and Chorney and Fisk and Glen and Hamel and Holt and Humes and Notman and Reid and Tucker and Wright, equal.

GEOMETRY.

First Year.—Class I.—Lewis, Radley; Culpeper and Laidley, equal; Moore (R. A.); Cooper (P. E.) and Macaulay and Turnbull (A. R.), equal; Kennedy and Layne and Oliver (J. H.), equal; Crain and Rochester and Yorston, equal; Cregeen and Griffith, equal; Mills; Gordon and Webster, equal; Craik and Faith, equal; Downs and Finley and Willis, equal; Powell (F. E.) and Rorke, equal; Scott (J. M.); Gaudet and Harbert and Hunten and Larose and Read (D. E.) and Roquet, equal. *Class II.*—Champion and Davies and McNaughton and Matheson, equal; Ambridge and Buller and Horsey and Steven and Tallon and Wilson (H.), equal; Davis and Morin (C. A.), equal; Denis and Foss (D. B.) and Gegg and Powell (A. T.), equal; Allan (J. M.) and Armstrong and Brough and Finlayson and Mulligan and Smith and Whittemore, equal; Baxter and Parsons, equal; McMeans and Simpson (J. C.), equal; Johnson and Pelletier and Ross (M. V.), equal; Bieler and Bloomfield and Brisbane and Legg and Simpson (R. L.), equal; Bleau and Moran and Sherwood and Stethem and Taschereau and Timmis (H. G.), equal; Adams and Clark (H. L.) and LeBaron, equal; Blackall and Davidson (S. C. K.) and Desloover and Held and McCaw and Macpherson and Taylor (M. B.), equal; Brodeur (J. C.) and Livingstone, equal; Bradshaw (G. R.)

and McLagan and Munn and Munro (D. J.) and Patterson (T. B.) and Wood, equal; Lawrence and Munro (G. H.) and Smallhorn and Streadwick and Terrance (E. H.), equal; Binns and Bishop (E. G.) and Macduff and Macnutt and Scott (L. J.) and Snyder and Zyback, equal; Holden and MacLaren (A. R.), equal; Cooper (H. C. D.) and Eadie and Fagan and Gilbert and Grant and Renouf, equal; Carpenter and De Salaberry and Herman and Patton, equal; Bradley and Dalrymple and Lea and Shier, equal; Graham and Maclaren (A. B.), equal; Foss (L. J.) and Hambly and Oliver (C. J.), equal; Dormer and Gamble, equal; Berry and Leitch and McCracken and Peters and Toole, equal; Abbott-Smith and Jerrom and Mallison and Plow, equal; Bradshaw (F. W.) and Gauthier and Jackson and Stirling and Wilson (P. R.), equal; Buffam and Harvey and Kingan and McEwen and McKindsey and Russell and Stone and Timmins (L. H.) and White (G. L. W.), equal; Antliff and Baillie and Bishop (J. G.) and Bouillon and Brodeur (J. P.) and Campbell (D. H.) and Currier and Cuttle and Goldstein and McDermott and MacLaren (J. N.) and Miller and Mulkins and Murphy (M. P.) and Murray and Newman and O'Shea and Raginsky and Rhind and Ross (A. E.) and Roughsedge and Smeaton and Wylde, equal; Amos and Caldwell and Cox and Desbarats and Dickinson and Echlin and Elkington and Goldberg and Hamilton and Hutchison and Katz and Kyle and McDonald and Strong and Taylor (C. W.), equal.

MECHANICS.

Third Year.—Class I.—Canning and Congleton, equal; Anderson, Cunningham, Phelan. *Class II.*—Gliddon, Bishop, Fortin; Brault and McCurdy and Sloves, equal; Eaton and Wilson, equal; O'Sullivan and O'Halloran, equal. *Class III.*—Watson, Gould, Farnsworth, Farmer, Langstroth; Gauthier and Maxwell and Thompson, equal; Macdonald; Gardner and Lewis and Mooney, equal; Winslow, Macfarlane; Fellows and Hall, equal; Hill and Kirby and Salamis, equal.

Second Year.—Class I.—Mott, Weldon; Eager and Gurman, equal; Hastings; Biggar and Kyle and McTaggart and Patterson, equal. *Class II.*—Banfill and Tatley, equal; Gordon, Messenger, Dobson; Brooks and Evans, equal; Brown (E. V.) and Carson, equal; Carlyle and Harris, equal; Cartwright, Clark; Bush and Taber, equal. *Class III.*—Binmore and Clarke and Duff and Mackenzie (D. G.) and Morrisette and Woolward, equal; Chorney and Desbarats and Ross (J. H. D.) and Taylor (E. P.), equal; Taylor (J. E.); Brown (G. B.) and Fraser

and Lorin, equal; Crawford and Farquharson and Loebel and Wain and Wonham, equal; Macrae and Parker, equal; Elliot and Kirsh, equal; McDougall and MacKeen, equal; Bonneville; Bastable and Ford and Grant and Lawrence, equal; Armstrong and Foss and Mackenzie (G. H.) and Spratt, equal; Boronow and Cousineau and Jandrew, equal; Holmes and MacGregor and Simons and Thompson and Wilson (J. M.), equal; Hanington; Bissell and Cloutier and Hamilton (P. D. P.) and McLennan and Wilson (H. A.), equal.

First Year.—Class I.—Buller and Gordon and Hunten and Kennedy and Larose, equal; Culpeper and Laidley, equal; Moore and Toole, equal; Cross, Yorston; Baxter and Foss (D. B.), equal; Layne; Ambridge and Bloomfield and Finley and Matheson, equal. *Class II.*—Craik and McNaughton, equal; Smith; Cooper (H. C. D.) and Macaulay and Oliver (J. H.) and Read (D. E.), equal; Bieler and Legg and Lewis and Radley and Turnbull (A. R.), equal; Faith and Stephen and Stone, equal; Bradshaw (G. R.) and Wood, equal; Grant; Cregeen and Sherwood, equal; McKindsey and Ross (M. V.), equal; Davis and Denis and Griffith and Simpson (R. L.), equal; Armstrong and Bishop (E. G.) and Maclaren (A. B.) and Scott (J. M.) and Webster, equal; Buffam and Cooper (P. E.) and Davies and MacLaren (A. R.) and Munro (D. J. B.), equal. *Class III.*—Reid (H. E.) and Smallhorn and White (G. L. W.), equal; Powell (A. T.) and Renouf and Tallon, equal; Blackall and Cuttle and Finlayson and Hamilton and Holden, equal; Clark and Dalrymple and LeBaron and Rochester and Willis, equal; McLagan and Simpson (J. C.), equal; Binns and Brisbane and Crain and Gaudet and Horsey and Peters and Timmis (H. G.), equal; Eadie and Raginsky, equal; Chisholm and Lawrence and Wylde, equal; Parsons and Patton and Roquet, equal; Brodeur (J. C.); Antliff and Caldwell and Dupuis and Foss (L. J.) and Gauthier and Harbert, equal; Allan (J. M.) and Cope and Desloover and Jackson and Miller and Rorke and Terrance (E. H.), equal; Evans and Graham and Lea and Scott (L. J.) and Streadwick, equal; Adams and Amos and Baillie and Bleau and Bradshaw (F. W.) and Brough and Carpenter and Champion and Desbarats and Downs and Elkington and Fleming and Gilbert and Harling and Harvey and Herman and Hutchison and Livingstone and McCaw and Macduff and McLeod and Macpherson and Mills and Moran (T. M.) and Morin (C. A.) and Munn and Oliver (C. J.) and Owens, and Patterson (T. B.) and Pelletier and Powell (F. E.) and Sherrard and Shier and Stephen and Stirling, equal.

TRIGONOMETRY.

First Year.—Class I.—Larose, Kennedy, Yorston, Crain; Layne and Moore and Rochester, equal; Oliver (J. H.), Culpeper; Craik and Davies, equal; Pelletier; Ambridge and Laidley and Lewis and Turnbull (A. R.), equal; Gordon; Cregeen and Stephen and Webster, equal; Dalrymple and Hunten and Radley, equal. *Class II.*—Wood; Brodeur (J. C.) and Grant, equal; Buller; Buffam and Rorke and Willis, equal; McLagan and Smith, equal; Faith and Matheson and Munro (D. J.), equal; Bloomfield and Cooper (P. E.), equal; Read (D. E.) and Foss (D. B.), equal; Bleau and Denis and Harbert and LeBaron and MacLaren (A. R.) and Mills and Roquet, equal; Eadie; Binns and Johnson and Macaulay and Peters and Ross (M. V.), equal; Bradshaw (G. R.) and Fagan and Gaudet and Horsey and McKindsey and Powell (A. T.) and Tallon and Toole and White (G. L. W.), equal. *Class III.*—Baxter and Bradshaw (F. W.) and Cooper (H. C. D.) and Jackson and Moran (T. M.) and Terrance (E. H.), equal; Bieler and Brodeur (J. P.) and Clark and Legg and McNaughton and Smallhorn, equal; Brisbane and Simpson (J. C.) and Taylor (M. B.), equal; Allan (J. M.) and Blackall and Finley and Graham and Held, equal; Caldwell and Carpenter and Davis (W. W.) and Finlayson and Macnutt and Scott (J. M.), equal; Currier and Gauthier and Morin (C. A.) and Reid (H. E.), equal; Adams and Armstrong and Champion and Gamble and Mulligan, equal; Abbott-Smith and Amos and Desbarats and Desloover and Griffith and Murray and Nutting and Patton and Sherwood and Whittemore, equal; Ball and Berry and McLeod and McMeans and Renouf and Zybach, equal; Cross and Dickinson and Dupuis and Patterson (T. B.) and Scott (L. J.) and Stethem, equal; Brough and Cox and Davidson (S. C.) and Elkington and Taylor (C. W.) and Timmis (H. G.), equal; Downs and Fleming and Gegg and James and MacLaren (A. B.) and Paterson (A. P.) and Simpson (R. L.) and Stone and Streadwick, equal; Bishop (E. G.) and Chisholm and Cope and Cuttle and Davidson (W. M.) and Dormer and Gilbert and Harling and Harvey and Lea and Lemieux and McCaw and Macpherson and Mallison and Oliver (C. J.) and Owens and Powell (F. E.) and Shier and Snyder and Taschereau and Winter, equal.

MECHANICAL DRAWING.

Third Year (Electrical Engineering Course).—Class I.—None. *Class II.*—Fellows, Gliddon, Jackson; Eaton and Thompson, equal;

Phelan, Kennedy; Kirby and Vaughan, equal; Anderson. *Class III.*—Vineberg, Bishop; Macdonald and Salamis, equal; Louttit, Canning; Clark and Hill and Whelen, equal; Tison, Acton.

Third Year (Mechanical Engineering Course).—Class I.—Maxwell. *Class II.*—McCurdy, Winslow; Congleton and Perriton, equal; O'Halloran; Farnsworth and Mooney, equal; Macfarlane, Gould. *Class III.*—Langstroth, Wilson; Hall and Jenckes and Smith (D. W.), equal; Durant and Wilkins, equal.

First Year.—Class I.—Cooper (P. E.); Kotsonas and Larose, equal; Moore; Kingan and Lewis, equal; Layne, Stephen; Crain and Rorke, equal; Harvey and Powell (A. T.), equal; Macaulay; Hunten and Matheson, equal. *Class II.*—Chisholm and Craik and Herman and Terrance (E. H.) and Velasco, equal; Johnson and Oliver (J. H.), equal; James, Munro (D. J. B.); Laidley and Maclaren (A. B.) and Reaper and Shier and Wood, equal; Eadie and Kennedy and McNaughton and Smith, equal; Champion and Cregeen and Legg and Patton and Peters, equal; Adams and Binns and Bloomfield and Currier and Liersch and McKyes and Munro (G. H.) and Raginsky and Streadwick, equal; Ambridge and Armstrong and Faith and Patterson (T. B.) and Read, equal; Allan (J. M.) and McKindsey, equal; Owens and Raskin and Roquet and Whittemore, equal; Brisbane and Livingstone and Morin (C. A.) and Reid and Willis, equal; Cuttle and Foss (D. B.) and Macnutt and Oliver (C. J.) and White (C. P.), equal; Buffam and Fagan and Hamilton and Jerrom and McLagan and Murray and Pelletier and Powell (F. E.), equal; Bieler and Bradshaw (G. R.) and Cope and Cornell and Culpeper and Dalrymple and Dickinson and Gilbert and Gordon and Harbert and Leitch and Russell and Scott (J. M.) and Sherwood and Webster, equal. *Class III.*—Abbott-Smith and Brough and Elvidge and Gaudet and McCaw and Stirling, equal; Gamble and McDermott and Mills and Moseley and Murphy (E. J. O.) and Wylde, equal; Carpenter and Desloover and Elkington and Evans and Finley and Fleming and Goldberg and Grant and McMeans and Stethem and Timmis and White (G. L.), equal; Baxter and Buraschi and Downs and Mulligan and Radley and Toole, equal; Baillie and Ball and Blackall and Davies and Jackson and Katz and Mulkins and Rochester and Taschereau, equal; Allan (D. H.) and Antliff and Berry and Bradshaw (F. W.) and Caldwell and Foster and Holden and Lawrence and MacLaren (J. N.) and Olive and Roughsedge and Simpson (J. C.) and Smallhorn and Snyder and Taylor (M. B.), equal; Buller and MacLaren (A. R.) and Murphy (M. P.) and Parsons and Torrance (J. F.) and Winter, equal; Clark and Cox and Dormer and Gegg and

Graham and Held and MacCallum and Martin (C. K.) and Miller and Parrott and Ross (A. E.), equal; Anderson and Bishop (E. G.) and Campbell (D. H.) and Davidson (S. C. K.) and Rhind and Ross (M. V.) and Yorston, equal; Braithwaite and Griffith and McDonald and Wilson (H.), equal; Brodeur (J. C.) and Brodeur (J. P.) and Echlin and Emo and Kyle and Moran (T. M.) and Scott (L. J.) and Smeaton and Zybach, equal; Bishop (J. G.) and Denis and Desbarats and Gauthier and Lea and Nutting and Paterson (A. P.), equal; Lemieux and Mignault and Plow and Tallon and Timmins (L. H.), equal; Bleau and Brumell and Campbell (A. T.) and Dupuis and Hambly and Hutchison and Morrin (J. J.) and Poulin and Simpson (R. D.) and Stone, equal. *Unranked.*—Biggar, Cross, LeBaron, McLennan, Turnbull (A. R.), Wilson (S. H.).

MECHANICAL ENGINEERING.

Third Year (*General Course*).—*Class I.*—Green, Jelly; Bain and Jackson and Louttit, equal; Bishop and Vineberg, equal; Brow; Fortin and Macphail, equal. *Class II.*—Johnston and Lantz, equal; Cuddy and Goodwin, equal; Anderson and Eaton and Fellows, equal; Dewar and Farmer and Gliddon, equal; Cunningham and Gould and Weldon, equal; Canning and Sloves, equal; Mawdsley and Millidge, equal; Copping and Gardner and Saunders, equal; Croft and Mitchell, equal; Phelan and Warriner, equal; Acton and Kennedy and Lordly and Palmer and Thompson, equal; Cockfield and Salamis, equal; Hannan, Macdonald; Clerk and Forbes and Whelen, equal. *Class III.*—Calkin and Harrison, equal; Clossey, Hill, Cambron; Hyndman and Irving and Vaughan, equal; Loy and Shotwell, equal; Cromwell and McIntyre, equal; Gibbs and Giles, equal; Purcell; Challenger and Gauthier, equal; Kirby and Nutter and O'Sullivan, equal; Davis (S. H.), Watson; Brault and Muir and Stroud, equal.

Third Year (*Mechanical Engineering Course*).—*Class I.*—Congleton, McCurdy; Langstroth and Maxwell, equal; Macfarlane, Winslow. *Class II.*—Wilson, O'Halloran; Durand and Hall, equal; Wilkins. *Class III.*—Mooney, Smith (D. W.), Farnsworth, Jenckes, Ward.

MECHANICS OF MACHINES.

Fourth Year.—*Class I.*—Elderkin, Scott. *Class II.*—Chisholm, McNicoll, Mackenzie; Shapter and Smith (E. H.), equal; Kirkpatrick. *Class III.*—Vessot, Macpherson, Shrimpton, Rutherford (A. B.), Twinberrow, Rutherford (W. J.).

Third Year.—Class I.—Canning, Anderson, Congleton, Phelan, Louttit, McCurdy, Jackson, O'Halloran, Gliddon. *Class II.*—Fellows, Bishop, Maxwell; Acton and Eaton, equal; Mooney, Vineberg; Gould and Thompson, equal; Langstroth. *Class III.*—Kirby, Macfarlane; Hall and Whelen, equal; Salamis, Kennedy, Hill, Jenckes, Macdonald, Smith (D. W.), Wilkins, Wilson.

Second Year.—Class I.—Biggar and McTaggart, equal; Bush and Crawford, equal; Mott and Weldon, equal; Wilson (J. M.), Gurman; Desbarats and Taylor (E. P.), equal; Bissell and Hanington, equal. *Class II.*—Dobson; Banfill and Carlyle and Grant, equal; McLennan, Bastable, Murphy (A. G. S.); Brooks (E. V.) and Gordon and Taber, equal; Brown and Duff and Fraser, equal; Hamilton and Hastings and Ross (J. H. D.), equal; Armstrong and Carson and Clark and Macnaughton and Spratt and Tatley, equal; Morrisette and Wain and Woolward, equal; Bonneville and Clarke and Eager and Elliot, equal; Anderson and Parker, equal; Cousineau and Fisk and Messenger and Mitchell and Wilder, equal; Brown (G. B.) and Buchanan and Coughlan and Holmer, equal. *Class III.*—Farquharson and Kyle, equal; Bradfield and Gnaedinger (P. E.) and McCallum, equal; Jandrew and Lawrence, equal; Wright; Evans and Foss, equal; Boronow and Holt and Humes and McGregor and Martin, equal; King and MacKeen, equal; Wilson (S. H.); Reiffenstein; Glen and Loebel and Macrae, equal; McDougall; Chorney and Gnaedinger (A. L.) and Norman, equal; Ahern and Benett and Cloutier and Drummond and Gooch and Kirsh and McGlashan and Mackenzie (G. H.) and Munro and Murphy (E. J. O.) and Normandin and Reid and Ross (D. R.) and Salter and Simons and Thompson and Tucker and Wonham, equal.

METALLURGICAL CALCULATIONS.

Third Year.—Class I.—Jordan, Harrison. *Class II.*—Nutter. *Class III.*—Fowler, Henderson.

METALLURGICAL COLLOQUIUM.

Fourth Year.—Class I.—Penney. *Class II.*—None. *Class III.*—None.

Third Year.—Class I.—Jordan; Fowler and Nutter, equal; Harrison. *Class II.*—Clossey and Henderson, equal. *Class III.*—None.

METALLURGICAL LABORATORY AND METALLOGRAPHY.

Fourth Year.—Class I.—DeCew and Taylor, equal; Smith (D. T.). *Class II.*—Hobart. *Class III.*—Kearns.

Third Year.—Class I.—Fowler; Harrison and Nutter, equal; Jordan. *Class II.*—Clossey, Henderson. *Class III.*—None.

METALLURGICAL MACHINERY AND DESIGN.

Fourth Year.—Class I.—None. *Class II.*—Penney. *Class III.*—None

METALLURGY.

Fourth Year.—Class I.—Erlenborn, Penney. *Class II.*—Gilbert, Henry, Emery; Edwards and Lee, equal; White. *Class III.*—Bourret and Karnes, equal; Douglas and Dyer, equal; Bradley.

Fourth Year (Metallurgical Engineering Course).—Class I.—None. *Class II.*—Penney. *Class III.*—None.

Third Year (Chemistry and Chemical Engineering Courses).—Class I.—Timmerman; Cuddy and Harris and Jelly and Johnston, equal. *Class II.*—Calkin; Copping and Green and Mitchell and Thomson, equal; Lantz and Smith (R. H), equal; Cockfield and Mackenzie, equal; Cohen, Stroud. *Class III.*—Lordly, Forbes; Cambron and Challenger and Patterson and Rochester (G. H.) and Shotwell, equal; Yates; Giles and Irving and Warriner, equal; Goodwin; Abbott-Smith and Croft and McIntyre and Purcell, equal.

Third Year (Mining Engineering and Metallurgy Courses).—Class I.—Mawdsley, Dewar, Brow. *Class II.*—Palmer, Nutter, Bain, Harrison, Tansley, Weldon, Jordan, Cromwell; Henderson and Fowler, equal. *Class III.*—Saunders, Davis (S.), Wells, Livingstone, Gualtieri and Scriver, equal.

MINE MAPPING.

Third Year.—Class I.—Weldon, Dewar, Mawdsley, Davis (Samuel), Armstrong, Cromwell, Livingstone. *Class II.*—Saunders, Scriver, Palmer, Brow, Tansley. *Class III.*—Bain, Rochester (L. B.), Wells, Gualtieri.

MINERAL ANALYSIS.

Fourth Year.—Class I.—Emery and Erlenborn, equal. *Class II.*—Henry, Gilbert, Edwards, Dyer. *Class III.*—Bradley, Jue, White, Bourret.

MINERALOGY.

Third Year.—Class I.—Timmerman, Bain, Armstrong, Henderson, Johnston. *Class II.*—Green; Brown and Cromwell and Saunders, equal; Croft; Jelly and McIntyre, equal; Calkin and Cohen and Mawdsley and Weldon, equal; Harrison; Clossey and Lantz, equal; Purcell; Smith (R. H.) and Warriner, equal. *Class III.*—Thomson; Davis (Samuel) and Forbes and Giles and Wells, equal; Fowler and Goodwin and Nutter, equal; Cockfield; Lordly and Shotwell, equal; Challenger and Gualtieri and Kay, equal; Copping and Livingstone, equal; Cambron

and Irving and Mackenzie (D. G.), equal; Gibbs and Jordan and Scriver and Stroud and Tansley, equal.

MINERALOGY (DETERMINATIVE).

Third Year.—Class I.—Saunders, Bain, Armstrong; Tansley and Croft, equal; Cromwell and Mawdsley, equal; Smith (R. H.), Jordan, Scriver; Green (F. G.) and Lordly, equal; Fowler and Jelly and Livingstone and Wells, equal; Johnston and Thomson and Timmerman and Weldon, equal; Goodwin and Harrison, equal; Dewar. *Class II.*—Brow; Copping and Giles, equal; Davis (S.) and Gualtieri, equal; Calkin, Kay; Hyndman and McIntyre, equal; Lantz and Rochester (G. H.), equal; Challenger and Clossey and Forbes, equal; Shotwell; Cuddy and Stroud, equal; Warriner; Cohen and Harris and Irving, equal; Cambron. *Class III.*—Nutter, Purcell; Gibbs and Yates, equal; Rochester (L. B.) and Henderson, equal; Patterson, Cockfield, Mackenzie, Abbott-Smith.

MINING COLLOQUIUM.

Fourth Year.—Class I.—Dyer. *Class II.*—Douglas and Lee, equal; Bourret and Edwards and Erlenborn and Gilbert and Henry, equal; Bradley and Emery and Karnes and White, equal. *Class III.*—Jue.

MINING ENGINEERING.

Fourth Year.—Class I.—Erlenborn, Edwards. *Class II.*—Gilbert, Henry, Douglas, Bourret, Mooney, Emery. *Class III.*—Bradley, Lee, Dyer, White, Karnes, Jue.

Third Year.—Class I.—Mawdsley, Bain, Saunders, Weldon, Rochester. *Class II.*—Dewar, Brow, Tansley, Cromwell, Davis (Samuel). *Class III.*—Nutter, Jordan, Wells, Harrison, Gualtieri, Scriver, Livingstone; Clossey and Fowler, equal.

MINING FIELD SCHOOL.

Fourth Year.—Class I.—Erlenborn and Henry, equal. *Class II.*—Edwards; Bradley and Jue, equal. *Class III.*—Karnes.

MINING MACHINERY AND DESIGN.

Fourth Year.—Class I.—Douglas and Edwards, equal; Erlenborn. *Class II.*—Henry; Emery and Gilbert, equal; Bradley and White, equal. *Class III.*—Lee, Dyer, Bourret, Karnes.

MUNICIPAL ENGINEERING.

Fourth Year.—Class I.—Fadie. *Class II.*—Austin, Robertson, Wickenden, Powell. *Class III.*—Lindsay; Davies and Duncan and Macklin, equal; Elder; Betournay and Ferrier, equal; MacEwen, Mahaffy; Cole and Hart, equal; Ross (B.), Seath, McPhail.

ORE DEPOSITS AND ECONOMIC GEOLOGY.

Fourth Year.—Class I.—Armstrong, Penney; Emery and Gilbert, equal. *Class II.*—Edwards, Henry, Douglas, Dyer. *Class III.*—Erlenborn; Bourret and Karnes, equal; Lee; Bradley and White, equal.

ORE-DRESSING.

Third Year (Chemical Engineering Course).—Class I.—Jelly. *Class II.*—McIntyre, Green (F. G.), *Class III.*—Purcell, Copping, Cambron, Kay, Croft.

ORE-DRESSING (COMPLETE COURSE).

Third Year (Chemical Engineering Course).—Class I.—Harris. *Class II.*—Lordly. *Class III.*—Shotwell.

ORE-DRESSING AND LABORATORY.

Third Year (Metallurgical and Mining Engineering Courses and Metallurgy Course).—Class I.—Bain, Saunders; Brow and Dewar and Palmer and Weldon, equal. *Class II.*—Davis (Samuel), Mawdsley, Harrison; Cromwell and Nutter, equal; Jordan and Tansley, equal; Wells. *Class III.*—Scriver, Henderson, Fowler, Rochester (L. B.).

ORE DRESSING AND MILLING.

Fourth Year.—Class I.—Gilbert, Douglas. *Class II.*—Henry, Edwards, Mooney, Erlenborn, Lee. *Class III.*—Bradley, Emery; Dyer and White, equal; Bourret, Karnes, Jue. *Unranked.*—Penney.

ORE DRESSING LABORATORY (THESIS WORK).

Fourth Year.—Class I.—Gilbert and White, equal; Douglas and Edwards and Emery and Erlenborn and Henry, equal. *Class II.*—Bradley and Dyer, equal; Lee. *Class III.*—Bourret, Mooney, Jue.

PETROGRAPHY (ADVANCED).

Fourth Year.—Class I.—Bradley, Gilbert. *Class II.*—Emery. *Class III.*—Douglas.

PETROGRAPHY AND LABORATORY.

Fourth Year.—Class I.—Edwards and Gilbert, equal. *Class II.*—Erlenborn, Henry, Douglas, Emery, Bradley, Bourret. *Class III.*—Lee, Dyer; Karnes and White, equal.

PHYSICS.

Fourth Year.—Class I.—None. *Class II.*—Standish. *Class III.*—Parnell.

Second Year.—Class I.—Mott, McTaggart. *Class II.*—Desbarats, Weldon; Bonneville and Murphy (A. G. S.), equal; Brooks; Carlyle and Cartwright, equal; Bush, Holt; Ahern and Clark and Clarke and Dobson and Taylor (J. E.), equal; Biggar and Carson, equal; Morrisette and Tatley, equal; Armstrong and Farquharson and Hanington and Taber and Taylor (E. P.) and Wilson (J. M.) and Woolward, equal; Messenger and Wonham, equal. *Class III.*—Wilder, Grant; Eager and Gordon and Hastings and Loebel and Ross (J. H. D.), equal; Wilson (H. A.); Brown (E. V.) and Fraser and Macrae, equal; Bissell; Benett and Duff and Jandrew, equal; Gurman and Reid and Spratt, equal; Binmore and Coughlan and Cousineau and Glen and MacGregor, equal; Evans and Lawrence and Thompson and Wright, equal; Boronow and Bradfield and Crawford and Ford and Gnaedinger (P. E.) and Kerr and Munro and Parker, equal; Bastable and Drummond and Kyle and McLennan, equal; Anderson and Banfill and Gnaedinger (A. L.) and Holmes and MacKeen and Macnaughton and McDougall and Midgley and Reed and Patterson and Scott and Simons and Tucker and Wain, equal.

First Year.—Class I.—Buller, Larose, Bieler and Layne, equal; Yorston, Kennedy, Turnbull (A. R.), Cregeen, Toole, Hunten, Sherwood. *Class II.*—Taylor (J. E.); Laidley and Radley and Roquet and Stephen, equal; Moore, Armstrong and Tallon, equal; McNaughton; Craik and Faith and Webster and Wood, equal; Allan (J. M.) and Bloomfield and Harbert and McLagan, equal; Desloover and Moran (T. M.) and Willis, equal, Abbott-Smith and Finlayson and Oliver (J. H.) and Rochester, equal; LeBaron and MacLaren (A. R.) and Pelletier, equal; Denis and Graham and Grant and Matheson and Morin (C. A.) and Paterson (T. B.) and Simpson (R. L.), equal; Gordon. *Class III.*—Lewis; Bradshaw (F. W.) and Crain and Cross and Gegg and McMeans and Peters and Read and Ross (M. V.) and Streadwick, equal; Fagan and Smallhorn and Stirling and Whittemore, equal; Binns and Blackall and Buffam and Cuttle and Finley and Johnson and Smith and Terrance (E. H.),

equal; Adams and Baxter and Dalrymple and Davis and Munro (D. J. B.), equal; Harling and Scott (J. M.), equal; Ambridge and Culpeper and Herman and Katz and Legg, equal; Bleau and Brisbane and Foss (D. B.) and Mills and Owens, equal; Ahern and Brough and Clark and Friedman and Horsey and Powell (A. T.) and Rorke, equal; Jerrom; Bishop (J. G.) and Dupuis and Macaulay and Patton, equal; Cooper (P. E.) and Davidson (S. C. K.) and Downs and Eadie and Gaudet and Griffith and McCracken and Macpherson and Stone and Timmis, equal; Evans and Gilbert and Lemieux and McCaw and McKindsey, equal; Berry and Carpenter and Champion and Foster and Dickinson and Hutchison and Stethem and Taschereau and Taylor (M. B.) and White (G. L. W.), equal; Braithwaite and Campbell (D. H.) and Davies and Elkington and Goldberg and Hambly and Lawrence (A. R.) and Livingstone and Macnutt and Mallison and Simpson (J. C.) and Winter and Wylde and Zybach, equal.

POWER PLANT DESIGN.

Fourth Year.—Class I.—Shrimpton. *Class II.*—McNicoll, Chisholm, Elderkin, Vessot, Kirkpatrick, Mackenzie; Macpherson and Rutherford (A. B.), equal. *Class III.*—Smith (E. H.), Scott, Twinberrow, Rutherford (W. J.), Shapter.

RAILWAY ENGINEERING.

Third Year (*No.* 93).—*Class I.*—Cunningham and Fortin, equal; Gardner, Brault, Macphail, Watson. *Class II.*—O'Sullivan; Lewis and Loy, equal; Hannan, Hurtubise, Perrault, Farmer. *Class III.*—Gauthier, Muir.

Third Year (*No.* 92).—*Class I.*—Cunningham, Fortin, Watson, Macphail; Gardner and Gauthier, equal. *Class II.*—Farmer, Hannan, O'Sullivan, Loy, Perrault and Muir. *Class III.*—Brault and Lewis, equal; Hurtubise, Robertson, Ferguson.

SHOP METHODS.

Second Year.—Class I.—Holt, Holmes, Ross (J. H. D.), McLennan; Biggar and Weldon, equal; Mott, Desbarats; Hanington and McKeen and Mitchell (J. M.) and Munro and Spratt, equal; Bush and Taber, equal; Bastable and Woolward, equal; Bonneville and Lawrence, equal; Brooks and Carlyle and Glen and Mackenzie (G. H.) and Morrisette, equal; Grant and Notman, equal; Armstrong and Carson and Jandrew and Ross (D. R.) and Salter, equal; Ahern and Hastings, equal; Bradfield and Wait, equal; Kyle; Benett and Gordon and Normandin and

Simons and St. Germain and Wilder, equal; Crawford and Drummond and Fisk and Ford and Taylor (E. P.), equal; Boronow and Dobson and Humes and Kerr and Turton, equal; Banfill and Lorin and McCallum and Martin and Root and Tatley, equal; Bissell and Fry and Jenks and Murphy (E. J. O.) and Tucker, equal; Cartwright and Clark and Macrae and McTaggart and Munn and Parker and Wilson (S. H.), equal; Brown (G. B.); Evans and Wilson (H. A.), equal; Fotheringham and McNider and Sherrard and Wain, equal; Hamel and Loebel, equal; Gnaedinger (P. E.) and MacGregor and Messenger and Midgley, equal; Cousineau and Cromwell and Gaboury and Reid, equal; Eager and Macnaughton and Murphy (Justin) and Wilson (J. M.), equal. *Class III.*—Fraser and King, equal; Foss and Gnaedinger (A. L.) and Ramsey, equal; Buchanan and Chorney and Friedman and Wright, equal; Harling and Reiffenstein, equal; Anderson and Pevzner, equal; Reed and Williams, equal; Renouf and Wheeler, equal; Nesbitt, Macoun; Quinlan and Reeve, equal; MacGlashan, Kirsh; Gurman and Turley, equal; Holcomb and Morrison, equal.

First Year.—Class I.—Hunten, Kennedy, Harbert, Antliff, Craik, Allan (J. M.); Carpenter and Hamilton and Stephen, equal. *Class II.*—Moore; Buller and Faith and Read and Rorke and Wood, equal; Champion, Turnbull (A. R.), Willis; Armstrong and Bradshaw (F. W.) and Oliver (C. J.), equal; Bloomfield and Eadie and Macaulay and McNaughton and Mills and Terrance (E. H.), equal; Baxter and Crain and Cregeen and Dickinson and Griffith and Kingan and Radley and Toole, equal; Culpeper and Finley and Layne and Maclaren (A. B.) and Matheson and Oliver (J. H.) and Pelletier and Powell (A. T.) and Timmis (H. G.) and Webster and White (C. P.), equal; Caldwell and Davidson (S. C. K.) and Downs and Munro (D. J. B.) and Murray and Patton and Streadwick, equal; Anderson and Brough and Finlayson and Grant and Harvey and Jackson and Peters and Wilson (H.), equal; Bieler and Buffam and Gordon and James and Larose and McCaw and Ross (M. V.) and Taylor (C. W.) and White (G. L. W.), equal; Brisbane and Evans and Hambly and Horsey and Lewis and McKindsey and McKyes and Owens and Reid and Rochester and Whittemore, equal; Adams and Braithwaite and Cooper (P. E.) and Davies and Denis and Herman and Johnson and Leitch and McLagan and Rhind and Taylor (M. B.), equal; Holden and Raginsky and Smith, equal. *Class III.*—Berry and Cox and Dalrymple and Fagan and Gegg and Jerrom and McEwen and McMeans and Patterson (T. B.) and Roughsedge, equal; Ambridge and Cuttle and Elkington and Elvidge and Miller and

Moran (T. M.) and Plow and Scott (J. M.) and Shier and Snyder and Stirling and Stone and Yorston, equal; Bradshaw (G. R.) and Campbell (D. H.) and Chisholm and Lea and LeBaron and Legg and MacLaren (A. R.) and Mulligan and Parsons and Salter and Tallon and Taylor (J. E.) and Wylde, equal; Dormer and Foss (D. B.) and Gilbert and McCracken and Mallison and Mignault and Morrin (J. J.) and Paterson (A. P.) and Reaper and Velasco and Zybach, equal; Binns and Bishop (E. G.) and Brodeur (J. C.) and Cross and Davis and Desbarats and Laidley and Lemieux and Robinson and Roquet and Taschereau and Winter, equal; Morin (C. A.) and Nutting and Ross (A. E.), equal; Abbott-Smith and Ball and Brumell and Dupuis and Gauthier, equal; Allan (D. H.) and Bishop (J. G.) and Currier and Lawrence and Smeaton, equal; Bleau and Foster and McDermott and Murphy (E. J. O.) and Powell (F. E.) and Smallhorn and Stethem, equal; Blackall and Clark and Dobson and Parrott and Scott (L. J.) and Sherwood, equal; Livingstone and Macnutt and Moseley and Simpson (R. L.) and Starr and St. Germain, equal; Baillie and Cope and Goldberg and MacCallum and Raskin, equal; Campbell (A. T.) and Graham and Kyle and Murphy (M. P.) and Russell, equal; MacLaren (J. N.); Brodeur and Buraschi and Gamble and Hutchison and Katz and McDonald and Macpherson and Munro (G. H.) and Poulin, equal.

SHOP PROCESSES AND MANAGEMENT.

Third Year.—Class I.—Congleton, Gould, Gliddon, O'Halloran, Maxwell. *Class II.*—Macfarlane, Durant, Smith (D. W.), Mooney. *Class III.*—Jenckes and Wilkins, equal; Perriton, Hall, McCurdy, Farnsworth.

SHOPWORK.

Fourth Year.—Class I.—None. *Class II.*—Macpherson and Rutherford (A. B.) and Vessot, equal; Shapter, Smith (E. H.), Elderkin, Shrimpton; Chisholm and Kirkpatrick and Rutherford (W. J.), equal; McNicoll and Scott, equal. *Class III.*—Mackenzie (B. H. T.). *Unranked.*—Twinberrow.

Third Year.—Class I.—None. *Class II.*—O'Halloran; Perriton and Winslow, equal; Farnsworth and Mooney, equal; McCurdy, Maxwell, Wilkins, Macfarlane, Congleton. *Class III.*—Wilson. *Unranked.*—Hall, Jenckes, Smith (D. W.), Ward.

Second Year.—Class I.—Banfill; Bonneville and King and McLennan, equal; Benett and Carson, equal; Bush and Hamilton and Reid and Tucker, equal. *Class II.*—Grant and Woolward, equal; Bradfield and Carlyle and Ford and Pevzner and Weldon and

Wilson (H. A.), equal; Fisk and Fry and Macnaughton and Taber and Wright, equal; Anderson and Armstrong and Cartwright and Clark and Hastings and Kirsh and Messenger and Notman and Wonham, equal; Brooks and Dobson and Morrisette and Munro and Quinlan and St. Germain, equal; Ahern and Buchanan and Fotheringham and Hanington and Holcomb, equal; McDougall and Parker and Spratt, equal; Fraser and Gordon and Hamel and Holmes and Kerr and Kyle and Nesbitt and Renouf and Wilson (S. H.), equal; Loebel and Mitchell (J. M.) and Munn and Williams, equal; Bissell and Reiffenstein, equal; Boronow and Harling and Humes and MacNider and Ross (D. R.), equal; Drummond and Foss and Friedman and Jandrew and Lorin and Murphy (E. Justin) and Ramsey, equal; Eager and Martin, equal; Cromwell and MacKeen and Macrae and Salter and Simons, equal; McTaggart and Murphy (E. J. O.) and Reed and Sherraid, equal. *Class III.*—MacGlashan and MacGregor and Reeve, equal; Bastable and Gurman and McCallum, equal; Brown (G. B.) and Gnaedinger (P. E.) and Ross (J. H. D.), equal; Gaboury and Wheeler and Wilson (J. M.), equal; Midgley; Biggar and Evans, equal; Gnaedinger (A. L.) and Wait, equal; Cousineau and Dineen, equal; Chorney and Turley, equal; Johnson and Morrison and Turton, equal; Mackenzie (G. H.) and Macoun, equal. *Unranked.*—Brown (E. V.), Crawford, Holt, Lawrence, Mott, Root, Tatley, Taylor (E. P.), Wilder.

First Year.—Class I.—Owens. *Class II.*—Downs and Kennedy and Larose and Macnutt and Matheson, equal; Reaper; Craik and Moore and Oliver (J. H.) and Reid, equal; Peters, Stirling; Fagan and Hunten and Jackson and Laidley and Lewis and McCaw and McKyes and Powell (A. T.) and Rorke and Stephen and Wood, equal; Adams and Bloomfield and Champion and Chisholm and Crain and Cuttle and Eadie and Harbert and McDermott and Munro (D. J. B.) and Raskin and Whittemore, equal; Binns and Brisbane and Buller and Cregeen and Finley and Layne and LeBaron and Legg and Liersch and Macaulay and Taylor (C. W.), equal; Carpenter and Cooper (P. E.) and Faith and Harvey and Kingan and McNaughton and Mignault and Pelletier and Plow and Read and Scott (J. M.), equal; Baxter and Caldwell and Grant and MacCallum and McLagan and McMeans and Smith, equal; Antliff and Blackall and Davies and Hamilton and Holden and Mills and Willis, equal; Dormer and Foss (D. B.) and Foster and Gilbert and Jerrom and Kotsonas and MacLaren (A. R.) and Martin and Oliver (C. J.) and Patton and Ross (A. E.) and Ross (M. V.) and Toole and Turnbull (A. R.) and Velasco, equal;

Bishop (J. G.) and Bradshaw (G. R.) and Cope and Currier and Elkington and Evans and Gegg and Griffith and Morrin (J. J.) and Murphy (E. J. O.) and Rhind and Sherwood and Terrance (E. H.) and Winter and Yorston, equal; Abbott-Smith and Bieler and Clark and Davidson (S. C. K.) and Dupuis and Gaudet and Gordon and James and Livingstone and Shier and Tallon, equal. *Class III.*—Allan (J. M.) and Armstrong and Bishop (E. G.) and Buraschi and Desloover and Elvidge and Graham and Held and Johnson and MacLaren (J. N.) and Olive and Scott (L. J.) and White (G. L. W.), equal; Allan (D. H.) and Baillie and Ball and Campbell (D. H.) and Cornell and Cross and Herman and Hutchison and Leitch and Miller and Morin (C. A.) and Mulligan and Parrott and Radley and Raginsky and Roughsedge and Synder and Stethem and Streadwick, equal; Brodeur (J. C.) and Finlayson and Foss (L. J.) and Roquet, equal; Bleau and Gamble and Gauthier and Lawrence and McEwen and Murphy (M. P.) and O'Heir and Patterson (T. B.) and Rochester and Wilson (H.) and Zybach, equal; Brough and Campbell (A. T.) and Davis and Denis and Desbarats and Fleming and Smeaton and Timmis and Torrance (J. F.), equal; Anderson and Cox and Dalrymple and Emo and Horsey and Lemieux and Powell (F. E.) and Simpson (J. C.) and Smallhorn and Taylor (M. B.) and Wylde, equal; Berry and Brumell and Buffam and Mulkins and Nutting and Taschereau, equal; Hambly and Kyle and Mallison and Paterson (A. P.) and Russell and Stone, equal; Katz and Moseley and Murray, equal; Culpeper and Lea and McCracken and McDonald and Moran (T. M.) and Salter, equal; Ambridge and Brodeur (J. P.) and Robinson and Simpson (R. L.) and Timmins (L. H.) and Webster, equal; Bradshaw (F. W.) and Dickinson, equal; DeSalaberry and Marcionelli, equal; Parsons, Goldberg.

STRENGTH OF MATERIALS.

Fourth Year.—Class I.—Eadie, Ferrier, Lindsay, Robertson. *Class II.*—Davies, Ross (B.), Austin. *Class III.*—MacEwen; Mahaffy and Seath, equal; Betournay and McPhail, equal; LaMontagne and Powell, equal; Cole and Deneau and Greene and Wickenden, equal.

Third Year.—Class I.—Cunningham and Green, equal; Anderson and Canning, equal; Brow; Fortin and Thompson, equal; Phelan; Maxwell and Palmer and Vineberg, equal; Bain and Cuddy and Saunders, equal; Gardner and Johnston, equal; Congleton and Farmer, equal. *Class II.*—Gliddon and Macphail, equal; Gould, Lantz; Bishop and Mitchell, equal; Cromwell and Jelly

and Nutter and Sloves and Warriner and Watson, equal; Calkin; Brault and Croft and Fellows and O'Halloran, equal; Jackson and O'Sullivan, equal; Hall and Hannan, equal. *Class III.*—Lordly; Macdonald and Winslow, equal; Challenger, Muir, Eaton; Harrison and McCurdy, equal; Goodwin and Loy and McIntyre and Smith (R. H.), equal; Acton and Forbes and Irving and Livingstone and Mawdsley, equal; Cambron and Lewis and Whelen, equal; Ferguson and Giles and Weldon, equal; Kay; Copping and Dewar and Hyndman and Langstroth and Macfarlane and Perrault and Robertson and Tansley, equal.

STRUCTURAL DESIGN.

Third Year.—Class I.—Cunningham, Jelly, Gardner; Congleton and Macphail, equal; Fortin, Maxwell; Saunders and Warriner, equal; Macfarlane, Green, Brown. *Class II.*—Brault and Lantz and Loy and O'Halloran, equal; Palmer; Hannan and McCurdy, equal; Mitchell, Johnston; Davis (Samuel) and Gauthier and Stroud, equal; Challenger and Smith (R. H.), equal; Robertson, Bain; O'Sullivan and Perrault, equal; Croft and Farmer and Harrison and Muir and Weldon, equal; Cockfield and Goodwin and Langstroth and Lordly, equal. *Class III.*—Cuddy and Hall and Livingstone, equal; McIntyre and Winslow, equal; Watson; Fowler and Giles and Hyndman, equal; Gould; Copping and Lewis, equal; Calkin and Dewar and Mooney, equal; Cromwell and Forbes, equal; Irving and Kay, equal; Ward; Farnsworth and Mawdsley and Wilson, equal; Nutter.

SUMMER ESSAYS.

Fourth Year (Chemistry and Chemical Engineering Courses).—Class I.—None. *Class II.*—Cameron, DeCew; Lafontaine and Mosher and Ross, equal. *Class III.*—Crowe and Labell and Larose and Parsons, equal; Taylor; Fox and Millar and Rashback, equal.

Fourth Year (Civil Engineering Course).—Class I.—Eadie and Ferrier, equal. *Cass II.*—Cole and Kelly, equal; Austin and Robertson, equal; Deneau and McEwen, equal; Greene and Seath, equal; Elder, Power. *Class III.*—None.

Fourth Year (Electrical Engineering Course).—Class I.—Dunbar; Demers and Hacker and Schippel and Windsor, equal. *Class II.*—Pope, Wiggs, Arbuckle. *Class III.*—None.

Fourth Year (Mechanical Engineering Course).—Class I.—Vessot; Chisholm and Elderkin, equal. *Class II.*—Smith, Mackenzie; Kirkpatrick and Macpherson and Scott and Shapter, equal. *Class III.*—None.

Fourth Year (Metallurgical Engineering Course).—Class I.—None. *Class II.*—Penney. *Class III.*—None.

Fourth Year (Mining Engineering Course).—Class I.—Douglas, Erlenborn. *Class II.*—Jue; Henry and White, equal; Bourret and Edwards and Karnes and Mooney, equal; Bradley. *Class III.*—None.

Third Year (Chemistry and Chemical Engineering Courses).—Class I.—Johnston. *Class II.*—Shotwell. *Class III.*—Smith; Fox and McIntyre and Rashback, equal.

Third Year (Civil Engineering Course).—Class I.—Cunningham. *Class II.*—Farmer and O'Sullivan, equal; Gauthier and Watson, equal. *Class III.*—None.

Third Year (Electrical Engineering Course).—Class I.—None. *Class II.*—Vineberg; Demers and Gliddon, equal; Bishop and Fellows and Hill, equal. *Class III.*—Eaton.

Third Year (Mechanical Engineering Course).—Class I.—Congleton. *Class II.*—Cameron and Durant and Langstroth and Mooney and Perriton, equal; McCurdy. *Class III.*—None.

Third Year (Metallurgy Course).—Class I.—Fowler. *Class II.*—None. *Class III.*—None.

Third Year (Mining Engineering Course).—Class I.—Weldon. *Class II.*—Bain. *Class III.*—Saunders, Livingstone.

SUMMER READING.

Third Year.—Class I.—Timmerman, Cockfield, Lordly, Canning; Jordan and Macfarlane, equal. *Class II.*—Winslow, Gardner, Phelan, Brow, Acton, Tansley; Harris and Wilkins, equal; Anderson and Macphail, equal. *Class III.*—Lewis, O'Halloran, Mawdsley; Challenger and Jackson, equal; Hyndman, Cuddy, Fortin, Macdonald; Henderson and Irving and Thompson, equal; Bethune and Brault and Hall and Mackenzie and Maxwell and Purcell and Salamis and Tison and Wilson, equal.

Second Year.—Class I.—Buchanan, Carlyle. *Class II.*—Ford and Loebel and Lorin and Turton, equal; Bissell and Tucker, equal; Boronow and Bradfield and McNider, equal; McLennan. *Class III.*—Davis, Taber; Clark (G. S.) and Fisk and Gnaedinger (P. E.) and Grant, equal; Banfill and Kerr and Mitchell and Murphy (E. J.), equal; Bastable and Bush and Eager, equal; Glen and Gurman, equal; Cousineau and Johnson and Messenger and Morrison and Munro, equal; Morrisette; Brown (E. V.) and Macnaughton and Reiffenstein and Weldon and Wright, equal; Chorney and Fraser and Holcomb and Jenks and Mackenzie and Midgley and Pevzner and Woolward, equal.

SUMMER SCHOOLS.

Third Year (*Fire Assaying and Metallography*).—*Class I.*—Miller and Timmerman, equal. *Class II.*—None. *Class III.*—Henderson (No. 264 only).

Third Year (*Inorganic Qualitative Analysis*).—*Class I.*—Johnston, Lantz, Jordan. *Class II.*—Calkin and Taylor, equal; Harris, Giles, Fowler, Gould, Irving; Patterson and Smith, equal. *Class III.*—Cuddy, Challenger; Forbes and Millidge, equal; Yates; Shotwell and Stroud, equal; Goodwin and Purcell, equal; Cambron; Copping and Kay and Nutter, equal; Bethune and Cockfield, equal.

Third Year (*Inorganic Qualitative Analysis Laboratory*).—*Class I.*—Johnston and Jordan and Lantz, equal. *Class II.*—Bethune and Cuddy and Goodwin and Irving and Smith and Warriner, equal. *Class III.*—Calkin and Cambron and Challenger and Copping and Fowler and Giles and Gould and Harris and Kay and Millidge and Nutter and Patterson and Purcell and Shotwell and Stroud and Yates, equal; Cockfield and Forbes and Hyndman and Mackenzie and Rochester and Taylor, equal.

Third Year (*Shopwork*).—*Class I.*—Windsor, Winslow. *Class II.*—Farnsworth; Macfarlane and O'Halloran, equal; McCurdy and Maxwell and Mooney, equal; Jenckes and Perriton, equal; Wilkins, Elliot, Congleton. *Class III.*—None.

SURVEYING.

Third Year (*Civil Engineering Course*).—Cunningham and Macphail, equal. *Class II.*—Gardner, Fortin, Lewis, Farmer, Watson, Hannan, Brault. *Class III.*—Muir, Gauthier, Loy, Perrault; Hurtubise and Robertson, equal.

Third Year (*Mining Engineering Course*).—*Class I.*—Brow, Bain and Weldon, equal. *Class II.*—Saunders. *Class III.*—Dewar and Palmer, equal; Davis (S), Cromwell, Mawdsley.

Second Year.—*Class I.*—Weldon, McTaggart, Holt; Palmer and Pevzner, equal; Bissell and Perry, equal; Bastable and Murphy (A. G. S.), equal; Bush and Morrisette, equal; Biggar and Desbarats and Dobson and Hanington, equal. *Class II.*—Bonneville and Duff and Harrison and Morris, equal; Fraser and Mott, equal; Brooks; Ahern and Clark and Holmes and Kyle and Wilder, equal; Carlyle and Carson and Farquharson and Normandin and Spratt and Tatley, equal; Cartwright and Munro, equal; Parker; Banfill and Brown (E. V.) and Eager and Foss and Martin and Taber and Wain, equal; Fisk and Humes, equal; McLennan and Messenger and Notman, equal; Gnaedinger (P. E.) and Gordon and Reiffenstein, equal; Craw-

ford and Mitchell and Ross (J. H. D.) and Woolward, equal; Bradfield and Loebel and Wilson (S. H.), equal. *Class III.*—Armstrong and Evans and Grant and Hamilton (P. D. P.) and Lawrence and Lorin, equal; Cousineau and Fry, equal; Clarke and Gnaedinger (A. L.) and Taylor (E. P.) and Wright, equal; Hamel and Reed, equal; Drummond and Ford and Thompson and Wonham, equal; Buchanan and Glen and Hastings and McDougall and Turton, equal; Brown (G. B.) and Holcomb and Nesbitt and Reid, equal; Gurman and Kerr and King and Macnaughton and Wait and Wilson (H. A.), equal; Fotheringham and Jandrew and MacGregor and MacKeen, equal; Anderson and Friedman and Macrae and Morrison and Simons and Wiggs, equal; Brown (L. E.) and Cromwell, equal; Boronow, Macoun; Chorney and Hunter and Luke and McCallum and MacNider and Murphy (E. J. O.) and Quinlan and Ramsey and Wheeler, equal.

SURVEYING FIELDWORK.

Third Year.—Class I.—Cunningham, Mawdsley, Macphail, Weldon. *Class II.*—Hannan, Watson, Dewar, Loy, Edwards, Gardner, Lewis, Fortin; Cromwell and Farmer and Henry and Muir and Saunders, equal. *Class III.*—Rochester (L. B.), Bradley; Brault and Gauthier, equal; Bain and Davis (S.) and Dyer and Thomson, equal; Brown and Tansley, equal; O'Sullivan; Livingstone and Salamis, equal.

Second Year.—Class I.—Ford; Fisk and Quaile, equal; McTaggart; Brown (L. E.) and Fraser and Hanington, equal; Bissell and MacKeen and Reiffenstein, equal. *Class II.*—Glen and Wain and Wiggs, equal; Wilson, Davis; Biggar and Fotheringham and Perry, equal; Parker, Kirsh; Bush and Clarke and Dineen and Foss (R. H.) and Gnaedinger (A. L.) and Hamilton (H. J.) and Monsarrat and Notman and Root and Ross (J. H. D.), equal; Gnaedinger (P. E.) and MacGregor and Morrisette and Palmer, equal; Messenger and Woolward, equal; Buchanan and Duff and Mitchell and Murphy (A. G. S.), equal; Brooks and Ouellette, equal; Carson and Clossey and Holcomb and Hurtubise and Kyle and Macrae and McLennan and Watt, equal; Bastable and Eager and Gaboury and King and Loebel and Martin and Tucker, equal; Banfill and Brown (G. B.) and Hamel and Lorin and Pevzner and Wait and Wonhom, equal. *Class III.*—Bradfield and Evans and Holt and Laing and MacKenzie (G. H.) and Newman and Quinlan and Ross (D. R.) and Scott and Spratt, equal; Brown (E. V.) and Carlyle and Chorney and Clark and Cousineau and Crawford and Fry and

Gurman and Hamilton (P. D.) and Jandrew and Luke and MacGlashan and MacNider and McCallum and Taber and Taylor (E. P.), equal; Bonneville and Grant and Holmes and McDougall and Morrison and Normandin and Simons, equal; Dobson and Nesbitt and Turton and Weldon, equal; Kerr and Lyall and Ramsey, equal; Boronow and Drummond and Friedman and Gordon and Jenks and Munn and Reid and Wilder and Williams and Wright, equal. *Unranked.*—Macoun.

THEORY OF STRUCTURES.

Fourth Year.—Class I.—Eadie, Lindsay. *Class II.*—Austin and Davies and Robertson, equal; Ferrier and Seath, equal; Cole and McPhail, equal; Greene and Powell, equal; Wickenden. *Class III.*—Betournay, Mahaffy; Deneau and LaMontagne and MacEwen and Ross (B.), equal.

THERMODYNAMICS.

Fourth Year (Mechanical Engineering Course).—Class I.—Elderkin. *Class II.*—McNicoll, Chisholm; Shrimpton and Twinberrow, equal; Shapter and Vessot, equal. *Class III.*—Kirkpatrick; Mackenzie (B. H. T.) and Smith (E. H.), equal; Scott; Rutherford (A. B.) and Rutherford (W. J.), equal; Macpherson.

Fourth and Third Years.—Class I.—Canning, Dunbar, Congleton, Gliddon, Roberton, Sloves, Anderson, Phelan, Code; Gould and Macfarlane, equal; Jackson; Vineberg and Hacker, equal; Dawson; Arbuckle and Hall and Thompson (G. M.), equal. *Class II.*—Schippel, Macdonald, Fellows, McCurdy, Eaton, Thompson (T. C.), O'Halloran. *Class III.*—Maxwell and Wiggs, equal; Langstroth, Pope, Bishop; Acton and Clerk and Louttit and Mooney and Parnell and Whelen and Windsor, equal.

WORKS, ORGANIZATION AND ACCOUNTING.

Fourth Year.—Class I.—Elderkin. *Class II.*—Rutherford (A. B.), Vessot, Smith (E. H.), Mackenzie (B. H. T.), Rutherford (W. J.), Chisholm, Shapter, Kirkpatrick. *Class III.*—Shrimpton, Macpherson, Scott, McNicoll, Twinberrow.

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